# BROAN®

**June 2009**

## Leadership

Leadership is measured in all kinds of ways. We define it with innovation, from spot ventilation products to whole-house indoor air quality systems. The greatest compliment we receive is seeing our product ideas become the industry standards.

## Silence

Silence is what consumers demand more than any other feature in a bath fan. We hear you, and proudly offer the Ultra Silent™ Series, the most quiet ventilation fans available. Proven in real-world installations, they deliver what we promise on the package.

## Style

Style can be difficult to define. What's compelling to one may be passe to another. Broan solves the issue with a broad variety of product styles, finishes, and shapes—all designed around you.

# We don't build products.
# We build the industry.

**Performance**

Powerful operation is the ultimate test. And a clear bathroom mirror after a long relaxing shower is the true measure of bath fan performance. That's why Broan engineers the right product for every type of application, room size and need.

**Selection**

No one provides more ways to improve indoor air quality. From the spot ventilation and heating products listed above, to our whole-house Broan Fresh Air Systems, trust Broan to keep your home safe and comfortable.

Broan makes the perfect ventilation fan
for every home, decor and budget.

# What you should consider when buying a bath fan or home ventilation system.

Steamy mirrors, damp walls and fogged windows. They're more than annoying. They could indicate developing problems like mold and mildew, ruined insulation, and wood rot. Spot ventilation solutions from Broan clear the air quickly and efficiently, removing potential problems before they invite themselves into your home.

### What's in stays in today's airtight homes.

Today's homes are built airtight for efficiency. But that means moisture and airborne pollutants stay where they are unless they are vented away. Eliminating excess moisture keeps your home dry and comfortable and can help avoid mold and mildew. Volatile organic compounds (VOCs) "outgas" from construction materials such as plywood, carpet, fabric, paint, adhesive, insulation and other common items. Allergens, dust, cooking vapor and what the kids bring home from school are more reasons why good ventilation is critical.

### Which product is best suited to my application?

Take a moment to consider what you're looking for in a spot ventilation product. Do you want quiet operation, a powerful blower, decorative designs or something that's virtually invisible? Could you use more light, or ventilation in a walk-in closet? Broan has what you need.

## Leadership

More than 70 years ago Broan invented the spot ventilation industry. Today, Broan is engineering and testing the next generation of ventilation solutions to keep your home and family comfortable.

### Sones measure the "sound level" of your fan.

A sone is a measurement of sound in terms of comfortable hearing level for an average listener. The lower the sone value, the more comfortable the environment. Sones are not decibels or volume, but rather how sound is "sensed." One sone is half as loud as two sones, and is equivalent to a quiet refrigerator.

### What "HVI certified" means to you.

The Home Ventilating Institute (HVI) is an independent organization that certifies the airflow and sound performance claimed by manufacturers of ventilation products. Broan certifies every product through HVI to ensure the product you purchase will perform as claimed. For more information visit www.hvi.org.

### Energy Star: Conserve energy and energy expenditures.

If you're concerned about saving money and energy, choose Broan bath fans that feature the Energy Star logo. These products use high efficiency motors and lighting that can reduce energy consumption by as much as 65%—all without sacrificing performance. Learn more about Energy Star at www.energystar.gov.

# Proper installation makes all the difference.

**Tape or caulk around the seam where the fan housing meets the sheetrock on the ceiling.**

**If possible, use smooth, rigid ductwork as large as the exit opening on the body of the fan housing.**

**Whether rigid or flexduct, the turning radius for the duct should be as large as possible.**

**Whenever possible, ductwork should slope down and away from the fan housing to direct any condensation toward the vent.**

**Keyhole slots and alignment tabs facilitate installation, taking the guesswork out of proper mounting.**

**Elbows, turns, long ducts and ductwork smaller than the fan's exit outlet will reduce performance.**

**Use wide aluminum foil or duct tape to join smooth metal ductwork seams.**

**Do not let flexible ductwork sag as this impedes airflow.**

**During installation, orient the bath fan outlet in the direction of the home's exit point to minimize duct turns.**

**Before adding an elbow or bend, allow 24" to 36" of straight run from the fan outlet point.**

**Duct-wrap insulation (R-5 or above) will help minimize condensation in cold climates, especially on long duct runs.**

**Exit vents should have backdraft flaps to help keep cold air from entering the duct.**

**Quick guideline: For bathrooms up to 100 square feet, the HVI recommends ventilation of about 1 CFM per square foot (about eight air changes per hour). For bathrooms over 100 square feet, add up the needs of each fixture to determine the total ventilation rate:**
• **Toilet 50 CFM**
• **Shower 50 CFM**
• **Bathtub 50 CFM**
• **Jetted tub 100 CFM**

# Easy steps for choosing and sizing the right ventilation fan for your home.

**Determine which rooms could use ventilation, and how much is needed.**
**Spot ventilation** is used in localized areas to remove moisture, odor and airborne pollutants quickly. Most commonly used in the bath or powder room, spot ventilation can also be used in a laundry room, exercise area, closet, or bedroom, wherever air should be changed frequently. Decorative and recessed models can be ideal solutions for these situations. According to the Home Ventilating Institute, Air Changes per Hour (ACH) for comfortable and healthy living should be as follows: Bathrooms: 8 changes, Kitchens: 15 changes, Living/Bedrooms: 6 changes. Broan bath fans, utility fans and high capacity fans meet these needs.

**Calculate the air movement necessary for proper ventilation.**
Air movement is measured in Cubic Feet per Minute (CFM). To determine CFM requirements, first determine the size of your room. Measure and multiply the length, width and ceiling height of your room to determine cubic footage. Then use the multiplication factor of .13 and round up to the next "ten." See the three examples that follow.

## Performance

A good ventilation fan is the product of research, testing and listening to the needs of consumers. At Broan we build these desires into ventilation products that provide the best mix of power, sound and quality for every budget.

Example 1: Bathroom with 8' ceiling: 7' wide x 9' long x 8' high x .13 = 66. Select a bath fan with at least 70 CFM.

Example 2: Bathroom with 9' ceiling: 10' wide x 9' long x 9' high x .13 = 105. Select a bath fan with at least 110 CFM.

Example 3: For a bathroom with a vaulted ceiling, use the average ceiling height at the wall and the peak: 8' wide x 12' long x ((8' at wall + 12' at peak) / 2 = 10') average height x .13 = 125. Select a fan(s) with at least 130 CFM.

**Account for long duct runs and ductwork that turns before it reaches the exterior vent.**
When airflow is restricted in any way it slows down. Just as a car must slow down for a sharp corner, air decelerates when going through a turn in a duct run. Whenever possible, create a straight duct run with large radius turns, if they're necessary at all. Rigid ductwork is optimal because airflow restriction is minimized. Flexible tubing may be convenient to install, but resistance is created as air is moved over the spiral metal frame of the tubing. With long duct runs or ducts with multiple turns the fan works harder, noise increases and fan performance (CFM) is compromised. Select a fan model with an even greater CFM rating compensate.

## 6" ducting overcomes most performance-related installation issues.

Broan's QTX Series fans deliver high performance in virtually any real-world installation. They are engineered with a 6" duct connector for peak air movement and extremely quiet operation, even when the duct run is not short and straight.

# Everything you need to know about home ventilation.

### What is a sone, and how is it measured?

A sone is a measurement of sound in terms of comfortable hearing level for an average listener. The lower the sone value, the more comfortable the listening environment. Sones are not decibels or volume, but rather how sound is "sensed." One sone is the equivalent of a quiet refrigerator.

### What does CFM mean?

CFM is the acronym for Cubic Feet per Minute — the measure of air volume moved by the fan blower. Choose a fan with a CFM rating appropriate for your room size to ensure adequate ventilation.

### What is continuous ventilation?

Continuous ventilation provides today's airtight homes with a relatively constant and controlled lower level of ventilation. Broan's extremely quiet and efficient Ultra Silent™ Series is ideally suited for these applications.

### Can I mount Broan fans above my tub and shower?

Most Broan fans are rated for use over a shower or bathtub with a GFCI (Ground Fault Circuit Interrupter).

### Can my bath fan be surrounded by insulation?

Yes. Broan bath fans are designed to provide adequate cooling for motors and lighting, as well as products with integral heaters.

### Will Broan fans work in wall-mount applications?

Some Broan bath and utility fans may be wall mounted. See the product matrix for specific models. Improper installation may affect fan life, safety and your warranty.

### Will a bath fan or wall-mount utility fan serve as a range hood?

No. Range hoods are specifically designed to handle grease and high temperature environments. Broan bath fans supplement odor and moisture removal in the kitchen, but are not intended for use as a range hood.

### What does "static pressure" mean?

Static pressure is the measurement of airflow resistance as it is pushed through ductwork which reduces the effectiveness of the fan. Learn more on the Home Ventilating Institute web site www.hvi.org.

# Air Quality

Broan has long been a leader in indoor air quality solutions. Our spot ventilation products for bathrooms and kitchens control problems at the source. For whole-house filtration and ventilation, Broan Fresh Air Systems set the standard.

### How long should a bath fan run after a shower is used?

The Home Ventilating Institute recommends that a fan should be left on for 20 minutes more to clear humidity adequately and to ensure moisture and condensation in the fan body or ducting is minimized.

### What should I do if I can't wait for moisture to clear, but I don't want a fan to run all day long?

Broan has sensing fans that detect the humidity rise caused by a shower and turn on automatically – when moisture has cleared it turns off.

Some wall controls also give you the option of humidity sensing, or timer control. Just set it and forget it.

### What are the timer features?

Delay-off timers automatically shut your fan off after a specified time interval. It's a nice feature in high traffic bathrooms where you may wish to let the fan run to clear moisture adequately. A timer counts down the minutes of fan operation selected by the user.

### Where should the exhaust fan be located?

Exhaust fans should be located in or near the shower or tub, and in an enclosed water closet. Keep exhaust points opposite the supply air source to ensure that the fresh air is drawn through the room. Bathroom doors should not be sealed too tightly at the bottom in order to allow "makeup air" to enter the room when the door is closed.

### How do I size a fan properly for my room size and the duct run?

See the sizing guidelines on page 7 for details on proper sizing. This section provides an explanation and examples to help you make the right decision.

### Where is the exhaust outlet on the ventilation fan?

The exhaust outlet is the point where air is discharged through the body of the fan housing into the ductwork. During installation, orient your fan with the exhaust outlet pointing toward the exit vent on your roof or wall to minimize turns in ductwork that impede airflow.

### Why do the windows and mirrors fog even when the fan is running?

If windows and mirrors are very cold, condensation can still form on these surfaces. And if your bathroom is sealed tightly, replacement air may not be entering the room fast enough to displace the moist air. Be sure to undercut your door sufficiently to draw fresh air into the room. Fan placement can also be a factor. Your fan should be located far from the replacement air source to ensure the moist air is drawn out first. Finally, too many twists and turns in the ducting will significantly reduce the ability of the blower to remove moist air. Make sure your ductwork is as short and straight as it can be, with gradual turns rather than tight corners where necessary.

### Why is water dripping from the grille of the fan?

Dripping water is either condensation (usually due to cold ductwork or improper duct installation), or a problem with the seal on a wall or roof vent. Insulated ductwork can help solve condensation problems, and running the fan longer will ensure moisture is completely removed from the duct. Ductwork should slope down toward a wall vent to direct condensation out of the exterior vent opening rather than back into the fan housing.

### Can I install a heater over the bathtub or in a shower?

No. Heaters are not UL Listed (Underwriter's Laboratory) for installation over a bathtub or in a shower.

### Can I use an inline or multi-port fan in one large bathroom?

Yes, this works the best for large rooms because you can install the ports over the areas where the ventilation is needed the most (source control). The size of the multi-port would be determined by the size of the room.

### Does a duct-free bath fan expel air?

No. A duct-free fan is not a ventilating device. It does not remove air from the room.

## Style

Style is a curious thing. To each individual it is something different. So Broan makes a range of unique products — some that stand out, others that blend in. But all suit every sense of style beautifully.

### Can larger diameter ducting be used with my bath fan?

Yes, larger diameters will result in improved performance.

### Can I use a smaller diameter duct than what the fan is designed for?

This is not recommended. It will cause the fan to run harder, greatly reducing the CFM performance of the fan and create excess noise.

### What type of duct is recommended, rigid or flexible?

It is recommended, where possible, to use rigid duct. It has less resistance to air flow and allows the fan to operate much more efficiently. If aluminum flexible duct is used, be sure the duct is as straight as possible.

### Can I exhaust my fan into my attic instead of out the roof or wall?

Never exhaust air into spaces within walls, ceilings, attics, crawl spaces or garages. Humidity may damage the structure and insulation.

### What type of exhaust fan is best for a sauna or hot tub area?

High CFM-rated devices are normally recommended for this type of application.

### Can I use a fan in a steam shower?

No. Since these are normally sealed chambers, a vacuum will be created.

### Can I vent more than one bath fan out of a roof or wall cap?

No. Always follow the manufacturer's recommended ventilation requirements.

Model QTXE Humidity
Sensing Fan, page 12

Model QTXE Humidity
Sensing Fan/Lights, page 26

Model QTRE Humidity
Sensing Fan, page 12

Model QTXE Fans, page 13

# Quiet is good. Virtual silence is better.

**The Broan Ultra Silent™ Series.**
There's a time for noise and excitement, and there's a time for more simple pleasures. The peaceful moment needn't be lost simply because your bath ventilation fan is uncomfortably loud. The ultra-quiet Broan Ultra Silent™ Series solves everything.

**Lower sones and more power.**
The Broan Ultra Silent™ Series started with a clean slate. We redesigned everything from the motor to the wheel to the housing, all to reduce operating noise.

An exciting new selection of high-style grilles will discretely complement your bathroom or make a bold design statement.

## Silence

Minimizing sound is best achieved by engineering the product correctly for real-world installations.

Broan's QTX Series is designed with efficient blowers and 6" ducting that will not restrict air flow.

Whether you choose a bath fan, a fan/light or a combination heater/fan/light, Broan has an ultra-quiet solution for every concern.

**How quiet is Ultra Quiet?**
A newer refrigerator generates about 1 sone, while a normal conversation is about 2 sones. Broan's Ultra Silent™ Series products are as quiet as <0.3 sones. They're the quietest fans available and deliver the power you expect for any room size.

Model QTXE Fan/Lights, page 27    Model QTRE & QTR Fans, page 13    Model QTRE & QTR Fan/Lights, page 27    Model QTX Heater/Fan/Light, page 33

# Ultra Silent™ Humidity Sensing Fans with Sensaire® Technology.

Broan Sensaire® technology is a hands-free solution to fighting excess humidity and possible mold problems. It detects rapid increases in moisture levels at the ceiling, where steam and humidity naturally rise, and automatically turns the fan on. With a fan this quiet, we included automatic shutoff to save worry, and money. Broan Sensaire® technology is a perfect solution for high traffic bathrooms, the kids' bathroom, or for anyone who leaves the house before humidity is properly vented.

## QTXE and QTRE Sensing Fan Features

- Detects a rapid rise in humidity
- Humidity is sensed at the ceiling level
- QTXE110S features easily accessible sensitivity adjustment
- Easy-to-set shut-off timer: 5–60 minutes on QTXE110S
- Auto shut-off timer: 20 minutes on QTRE100S
- Fits 2" x 8" ceiling construction

- UL Listed for use over bathtubs and showers when connected to a GFCI protected branch circuit
- Includes hanger bar system for fast and flexible installation for all types of construction
- Energy Star qualified
- HVI Certified

### QTXE110S Model
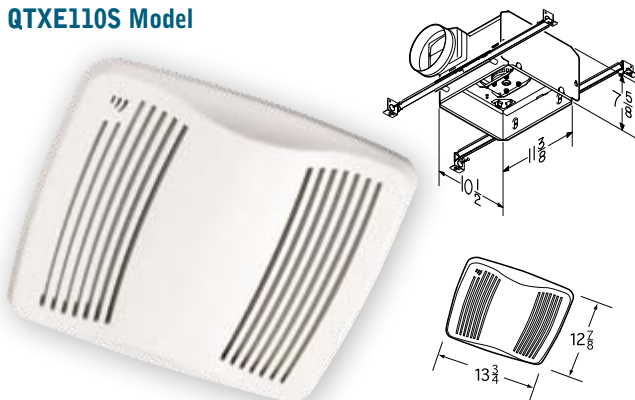
### QTRE100S Models
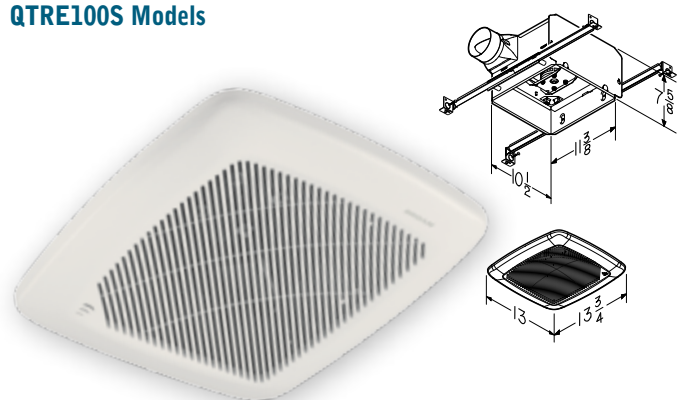
| Fan Model | CFM | Sones | Energy Star | Bath Sq. Ft. | Ducting |
|-----------|-----|-------|-------------|--------------|---------|
| **QTXE110S** | 110 | 0.7 | Yes | 100 | 6"▲ |
| **QTRE100S** | 100 | 1.5 | Yes | 90 | 4" |

Energy Star fans use 65% less energy, on average, than standard models and may qualify for local utility rebates.
▲ See page 50 for 6" ducting (DT6W) product specifications.

**2100 HVI CERTIFIED**

**Project Packs Available for QTRE100S model**
To simplify installation, a Project Pack is available with four fan housings. When drywall work and painting is complete, the fan components needed to finish the job are available in a single pack under a separate model number. The finish kit includes the motor plate, motor, wheel and grille. See the matrix below for Project Pack order information.

| Project Pack | Kit number: | For model: |
|--------------|-------------|------------|
| **Four-pack of FAN housings only:** | HQTS4 | |
| **One-pack finish kits for FAN models:** | FQTRE100S | QTRE100S |

FQTRE100S

HQTS4 (for FQTRE100S)

**Broan Ultra Silent™ Series Bath Fans.** A bath fan needn't call attention to itself, especially when you don't want it to overpower the design of your bath or powder room. More important, it shouldn't call attention to itself when it's working. So we developed the Ultra Silent™ Series to provide our quietest bath fans yet. With an energy efficient option, it simply does its job quietly, in every sense of the word.

## QTXE, QTRE and QTR Fan Features

- Nearly silent operation <0.3 to 1.5 sones
- 50 CFM to 150 CFM
- QTXE features 6" ducting for superior performance
- QTRE and QTR models feature 4" ducting
- QTRE and QTXE models are Energy Star qualified
- HVI Certified

- QTXE, QTRE and Housing Project Packs include hanger bar system for fast, flexible installation for all types of construction
- Motor engineered for continuous operation
- UL Listed for use over bathtubs or showers when connected to a GFCI protected branch circuit
- Fits 2" x 8" ceiling construction

### QTXE Models
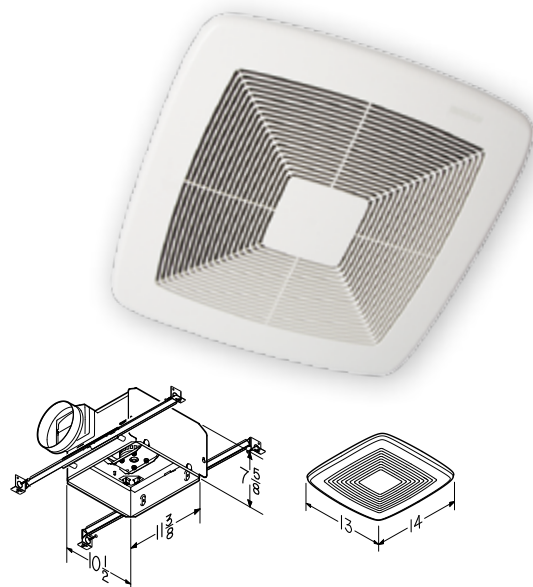


### QTRE & QTR Models
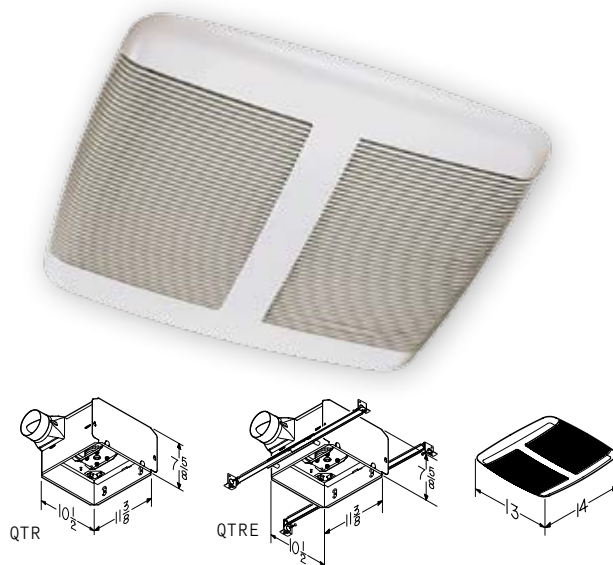


| Fan Model | CFM | Sones | Energy Star | Bath Sq. Ft. | Ducting |
|---|---|---|---|---|---|
| **QTXE050** | 50 | <0.3 | Yes | 45 | 6"▲ |
| **QTXE080** | 80 | 0.3 | Yes | 75 | 6"▲ |
| **QTXE110** | 110 | 0.7 | Yes | 100 | 6"▲ |
| **QTXE150** | 150 | 1.4 | Yes | 140 | 6"▲ |
| **QTRE080** | 80 | 0.8 | Yes | 75 | 4" |
| **QTRE110** | 110 | 1.3 | Yes | 100 | 4" |
| **QTR050⁺** | 50 | 0.4 | — | 45 | 4" |
| **QTR080** | 80 | 1.0 | — | 75 | 4" |
| **QTR110** | 110 | 1.5 | — | 100 | 4" |

Energy Star fans use 65% less energy, on average, than standard models and may qualify for local utility rebates.
▲ See page 50 for 6" ducting (DT6W) product specifications.
+ Only available in project packs.

### Project Packs Available for QTRE and QTR models

To simplify installation, Project Packs are available with either four fan or fan/light housings only. When drywall work and painting is complete, the fan components needed to finish the job are available in single packs under separate model numbers. These finish kits include the motor plate, motor, wheel and grille. See the matrix below for Project Pack order information.

| Project Pack | Kit number: | For model: |
|---|---|---|
| **Four-pack of FAN housings only:** | QTXR000HF | |
| **One-pack finish kits for FAN models:** | QTRE080F | QTRE080 |
| | QTRE110F | QTRE110 |
| | QTR050F⁺ | QTR050⁺ |
| | QTR080F | QTR080 |
| | QTR110F | QTR110 |

⁺Only available in Project Packs.



QTRE080F  QTR050F⁺
QTRE110F  QTR080F
QTR110F

QTXR000HF

# Broan Ventilation Fans

## 690 Bath Fan Upgrade Kit

The Broan bath fan upgrade kit lets you convert your old bath fan to a brand new unit in just 10 minutes. Improve performance, reduce the sound level, and upgrade the appearance of your economy fan in minutes.

• Cut sound levels up to 50%
• Boost air movement up to 20%
• 10 minute installation
• 60 CFM, 3.0 Sones
• Modern white grille
• No special tools needed

Two motor plates, depending on your fan model

New grille

Wrench

Quieter plug-in fan motor

### Broan 690 Upgrade Kit replaces the models below:

| If your grille looks like this: | The fan is very likely one of these models: | Housing dimensions: |
|---|---|---|
|  | NuTone 693, 695, 696N | 7½" x 7¼" or 8" x 7¼" |
|  | Broan 670, 671, 688, 689 | 7½" x 7¼" Not compatible with 8" x 8¼" |
|  | Nautilus N671, N688 |  |

## Radiation/Fire Damper Fan Project Packs

**A fire resistant screen** automatically closes when excessive heat is detected. The breakaway fusible link triggers the closing of the radiation damper's fire resistant screen to prevent smoke and fire from traveling through the ductwork.

• 165° fusible link
• Galvanized Steel Frame
• Stainless steel negator-type closure spring
• UL Classified (UL Standard 555C) for use in 1-, 2-, 3-hour fire-rated floor-ceiling or roof-ceiling designs
• All models offered as Project Packs
• HD models feature a heavy-duty motor

### Project Finish Packs include:

• Assembled motor plate, wheel and plug-in motor
• Rugged metal grille for added durability

### Models 80RDF, 110RDF, HD50RDF and HD80RDF

### Project Housing Pack includes:

• Rough-in housing with attached radiation/fire damper
• Adjustable hanger bars that span up to 24"
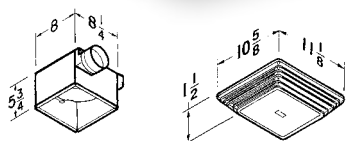• 4" metal duct connector with damper

### Model RDH

| Model | CFM | Sones | 4-Pack | Notes |
|---|---|---|---|---|
| **RDH** | — | — | Housing | — |
| **80RDF** | 80 | 2.5 | Finish | — |
| **110RDF** | 110 | 4.0 | Finish | — |
| **HD50RDF*** | 50 | 1.5 | Finish | Heavy-duty Motor |
| **HD80RDF** | 80 | 2.5 | Finish | Heavy-duty Motor |

* Energy Star qualified

## Ceiling Mount
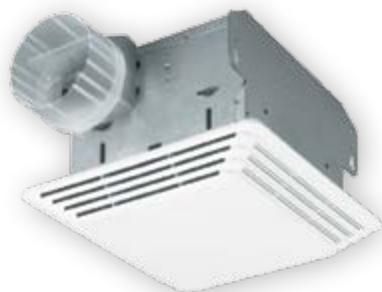


- 80 to 110 CFM
- Centrifugal blower wheel and 4-pole motor deliver high exhaust capacity at low sound levels
- White polymeric grille complements virtually any decor
- Torsion spring grille mounting—no tools necessary
- Metal grille kits (available separately)
- *Project Packs available

| Model | CFM | Sones |
|-------|-----|-------|
| 676 | 110 | 4.0 |
| 684 | 80 | 2.5 |

*Project Packs are convenient options for today's contractor. Broan "H" Packs include rough-in housings only, making multi-unit installation more convenient. "F" Packs allow motor/blower and grille assemblies to be ordered separately, nearer project completion, to help avoid losing or having to store components.





## Ceiling/Wall Mount
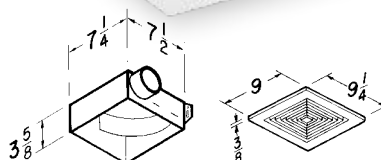


- 50 to 70 CFM
- Powerful centrifugal blower wheel
- Compact housing fits between ceiling joists or wall studs
- Double-strength steel mounting flanges with keyhole slots for fast installation
- Metal grille kits (available separately)
- *Project Packs available for most models

| Model | CFM | Sones | Notes |
|-------|-----|-------|-------|
| 670 | 50 | 3.5 | Wall/Ceiling mount |
| 671 | 70 | 6.0 | Wall/Ceiling mount |
| 688 | 50 | 4.0 | Wall/Ceiling mount |
| 689 | 60 | 5.5 | Wall/Ceiling mount |

## Heavy-duty operation
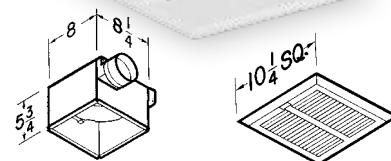


- Enclosed motors with long-life bearings for continuous operation
- Rugged metal fan grille for added durability, easier cleaning
- Grille torsion spring-mounted for easy installation
- Pre-wired outlet for plug-in motor plate
- AMCA licensed for both air and sound

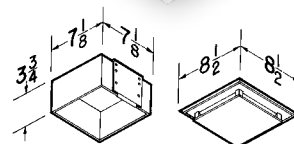| Model | CFM | Sones |
|-------|-----|-------|
| HD50* | 50 | 1.5 |
| HD80 | 80 | 2.5 |

* Energy Star qualified

## Duct-free

This easy-to-install solution is ideal where air circulation is needed but ducting is impossible or impractical. Use it as a solution for half baths or rooms where humidity isn't a concern.

### Model 682



- Patented, fast snap-in metal housing installation
- Whisper-quiet fan circulates air past replaceable activated charcoal filter
- Fits 2" x 4" ceiling or wall construction

| Model | CFM | Sones | Notes |
|-------|-----|-------|-------|
| 682 | — | — | Duct-free Circulation |

## Powerful solutions for problem rooms.

Eliminate humidity or tobacco smoke from recreation rooms, workshops, or cooking odors from kitchens with these powerful utility ventilators. Aluminum filters are available for most models. All feature powerful, permanently lubricated motors and rugged steel housings. Paint the low-profile white polymeric grilles to match any décor.

### Chain-Operated utility fan
• Pull-chain opens the door and starts fan
• Housing adjusts to fit walls from 4-1/2" – 9-1/2" thick
• Specially designed polymeric fan blade
• Housing features foam-insulated door for energy efficiency
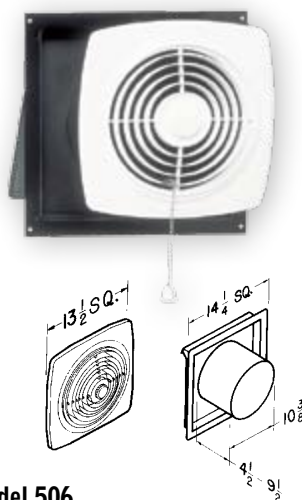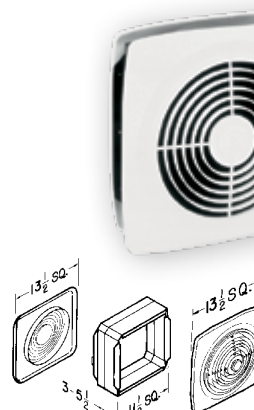
**Model 506**
• 10" Wall Fan

**Model 507**
• 8" Wall Fan (8-3/8" diameter sleeve)

® 2100
**HVI**
CERTIFIED

### Room-to-Room
• Room-to-Room ventilators provide quick solutions where more ventilation is needed – without installing new ductwork
• Built-in variable speed control
• Easy installation through wall 3" – 5-1/2" thick
• Permanently lubricated motor
• Paintable white polymeric grilles

**Model 510**
• 10" Room-to-Room fan
• Not for use in kitchens

**Model 511** (shown)
• 8" Room-to-Room fan
• Not for use in kitchens

### Wall/Ceiling Mount – Side Discharge
• Installs easily between ceiling joists or wall studs
• Built-in damper prevents backdrafts
• Fits 3-1/4" x 10" duct

**Model 502** (shown)
• 10" Side Discharge

**Model 503**
• 8" Side Discharge

Model 502
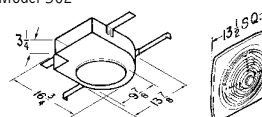
Model 503
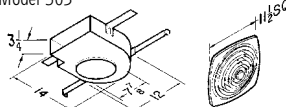
| | CFM | Sones | Diameter | Sizing Specifications |
|---|---|---|---|---|
| **Wall/Ceiling-Mount, Side Discharge** | | | | |
| **502** | 270 | 8.0 | 10" | Fits 3-1/4" x 10" duct |
| **503** | 160 | 5.0 | 8" | Fits 3-1/4" x 10" duct |
| **Chain-Operated** | | | | |
| **506** | 470 | 8.0 | 10" | Fits 4-1/2" – 9-1/2" thick walls |
| **507** | 250 | 7.0 | 8" | Fits 4-1/2" – 9-1/2" thick walls |
| **Room-to-Room** | | | | |
| **510** | 380 | 6.5 | 10" | Fits 3" – 5-1/2" thick walls |
| **511** | 180 | 4.5 | 8" | Fits 3" – 5-1/2" thick walls |

## Through-Wall fans
- Housing adjusts to fit walls from 4-1/2" – 9-1/2" thick
- Specially designed polymeric fan blade
- Built-in damper minimizes backdrafts for energy efficiency
- Paintable polymeric grilles
- Accessorize with wall switch or variable speed wall control
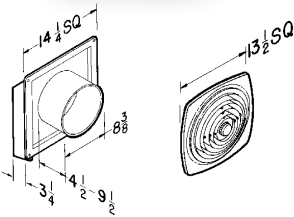
**Model 508**
- 10" Through-Wall

**Model 509 and 509S**
- 8" Through-Wall
- Model 509S features an integral ON/OFF rotary switch – no wall switch to wire

**Model 512**
- 6" Room-to-Room
- Use 57W or 57V variable speed control separately

**Model 512M**
- 6" Through-Wall
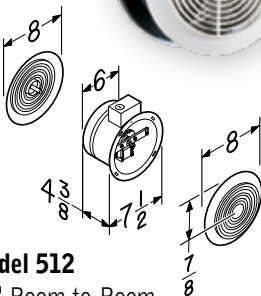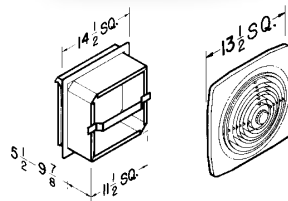- Louvered exterior wall cap with built-in bird screen
- 6" diameter flexible aluminum duct included

**Model 12C Motordor®**
- 10" Through-Wall
- Separate motor opens and closes the vent door automatically

## Vertical Discharge
- Installs easily between ceiling joists
- Built-in backdraft damper
- Galvanized steel housing
- Strong steel mounting brackets with keyhole slots for fast installation
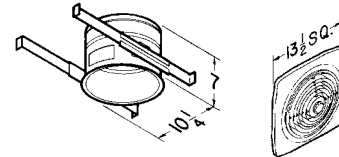
**Model 504** (shown)
- 10" Vertical Discharge
- Fits 10" round duct – use Model 472 transition/damper (available separately) for 8" round duct (performance will be reduced)

**Model 505**
- 8" Vertical Discharge
- 8-1/4" diameter housing
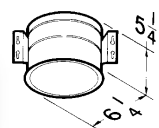
**Model 673**
- 6" Vertical Discharge
- Paintable, spin-on, white polymeric grille
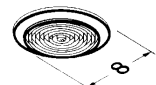
| Through-Wall | CFM | Sones | Diameter | Sizing Specifications |
|---|---|---|---|---|
| 12C Motordor® | 360 | 8.0 | 10" | Fits 5-1/2" – 9-7/8" thick walls |
| 508 | 270 | 6.0 | 10" | Fits 4-1/2" – 9-1/2" thick walls |
| 509/509S | 180 | 6.5 | 8" | Fits 4-1/2" – 9-1/2" thick walls 509S Integral ON/OFF Rotary Switch |
| 512 | 90 | 3.5 | 6" | Fits up to 5-1/8" thick walls |
| 512M | 70 | 3.5 | 6" | Fits 5-1/4" – 10" thick walls |
| **Vertical Discharge** | | | | |
| 504 | 350 | 6.5 | 10" | Fits 10" round duct |
| 505 | 180 | 6.5 | 8" | Fits 8" round duct |
| 673 | 60 | 4.5 | 6" | Fits 6" round duct |

# Broan Ventilation Fans—In-Line

**Remote Mounted In-Line Ventilation Fans** are quiet and efficient residential solutions. The concept is simple: mount a high-performance ventilator in an out-of-the-way spot and you get the power with virtually no sound. Install the housing in the attic or the basement, wherever it's most convenient and discrete.

## Multi- and Single-port In-Line Ventilators Features

- Energy-efficient, permanently lubricated motors
- High pressure centrifugal blowers easily accommodate long duct runs
- Designed for quick, easy installation
- HVI certified and AMCA licensed

- Suitable for intermittent or continuous ventilation applications
- Removable panels offer easy access to the motor without disturbing ductwork
- Plug-in blower simplifies wiring

## Multi-Port In-Line Ventilators

- Ventilate multiple bathrooms or other rooms simultaneously
- Great solution for large, open spaces
- Install in virtually any orientation

- 6" round outlet; 4" round inlets (two inlet duct covers included)
- Use 2, 3 or all 4 inlet ports

### Model MP100, MP140, MP200
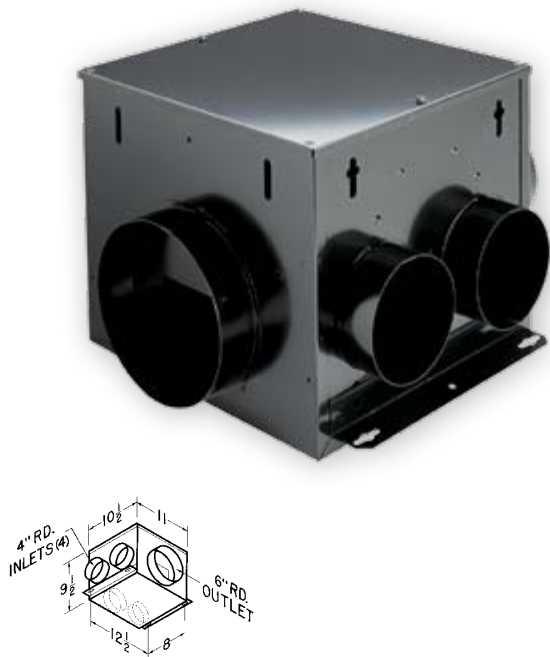


### Model MP280



| Multi-Port | CFM | Sones | Notes |
|-----------|-----|-------|-------|
| **MP100** | 110 | 1.0 | Four inlets |
| **MP140** | 150 | 1.5 | Four inlets |
| **MP200** | 210 | 2.0 | Four inlets |
| **MP280** | 290 | 3.0 | Four inlets |

HVI rated air flow at 0.2" static pressure. Sound test procedures are similar to HVI tests for other exhaust fans.

With a multi-port, In-line ventilation solution the blower is mounted away from the living area for virtually silent operation. Multi-port installations allow ventilation of up to four rooms, or use multiple inlet ports to clear the air in larger rooms. Single-port, In-line ventilators provide the same noise reduction benefits.

## Single-Port In-Line Ventilators

- Ventilate any room in virtual silence
- 6" round outlet and inlet for easy duct connections
  (two inlet duct covers)

### Model SP100, SP140, SP200



### Model SP100
- 110 CFM 1.0 Sones

### Model SP140
- 150 CFM 1.5 Sones

### Model SP200
- 210 CFM 2.0 Sones
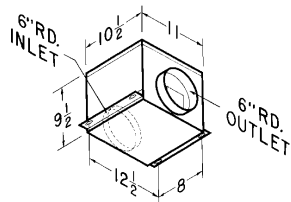
## Room Inlets

- Models available for 6" (CVG6) or 4" (CVG4) round duct
- Install in ceiling or wall
- Paint to match room décor

### Room Inlet Models CVG4 and CVG6



| Single Port | CFM | Sones | Notes |
|-------------|-----|-------|-------|
| **SP100** | 110 | 1.0 | One inlet only |
| **SP140** | 150 | 1.5 | One inlet only |
| **SP200** | 210 | 2.0 | One inlet only |

HVI rated air flow at 0.2" static pressure. Sound test procedures are similar to HVI tests for other exhaust fans.
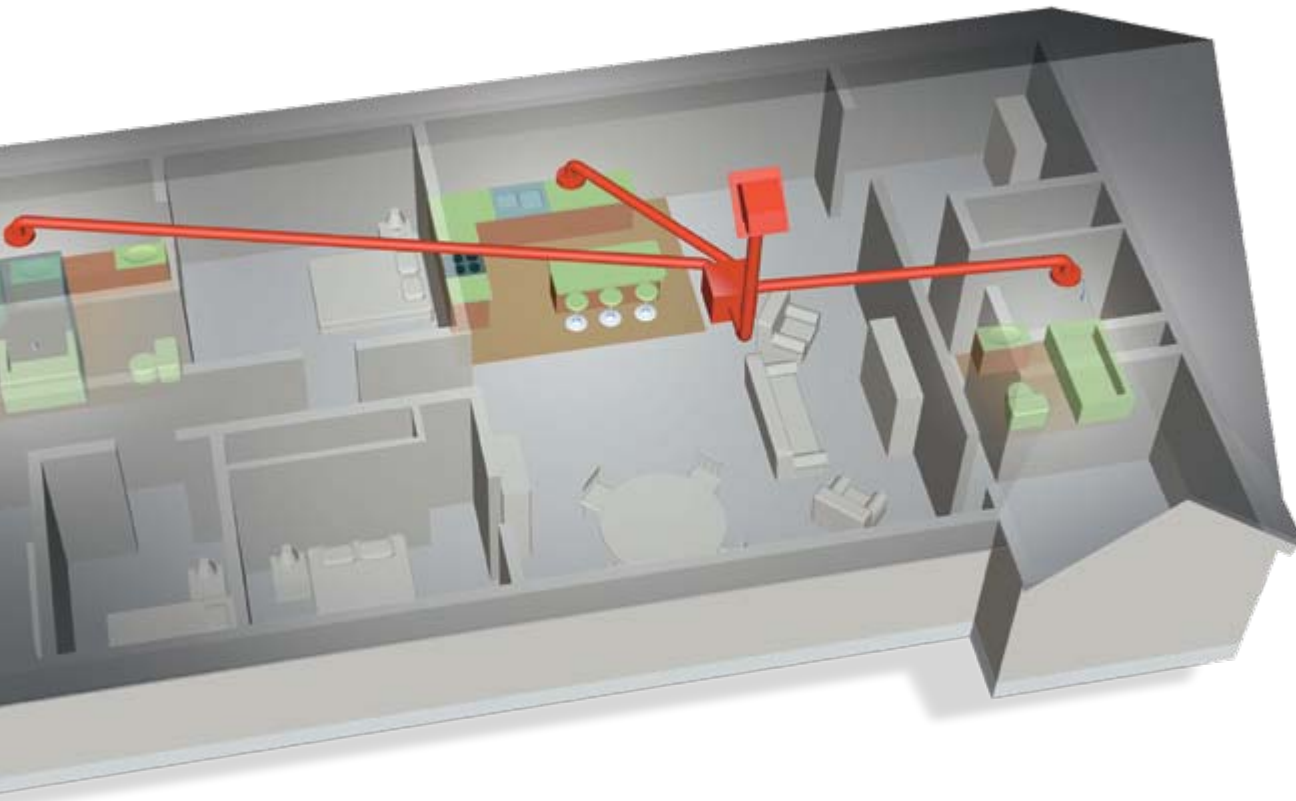
Incredibly reliable. Remarkably quiet.

**Broan high capacity fans** are an exceptionally quiet solution to continuous ventilation. With their heavy-duty motors, high capacity fans are an ideal solution for conference rooms, public restrooms, commercial kitchens and spaces that require ongoing ventilation. Low-vibration and low-profile, they work quietly without getting noticed.

## Broan High Capacity Fan Features

- Acoustic insulation lines the housing to reduce sound levels (kitchen and dedicated in-line models have no insulation)
- Quiet, low RPM motor is permanently lubricated for continuous operation
- Automatic backdraft damper built into the duct connector
- Resilient motor mounts minimize vibration
- Impact-resistant, balanced centrifugal blower wheel ensures consistent performance

- 8-way adjustable mounting brackets permit installation flexibility
- Round duct connectors on many models simplify installation
- Heavy gauge galvanized steel housing
- Low profile, impact-resistant, high-strength polymeric or white enameled steel grilles (varies by model)
- Quick, simple wiring from either inside or outside of the housing
- AMCA licensed for air and sound
- Duct horizontally, vertically or in-line

## 100/150 CFM High Capacity Fan Features

- 6" round duct connector
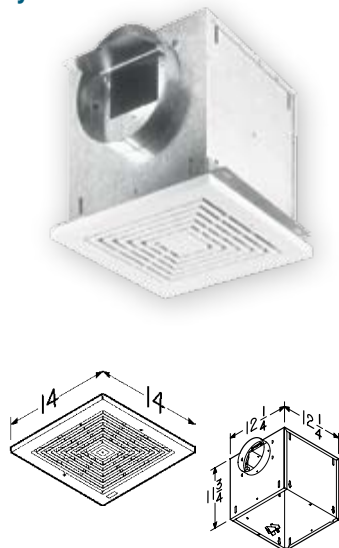- Single, impact-resistant centrifugal blower wheel housing
- Duct horizontally or vertically, or in-line with a separate adapter
- Low profile, white polymeric or painted white enamel steel grille

- Models L100L and L150L are UL Listed for use over bathtubs or showers when connected to a GFCI branch circuit
- Broan Electronic Variable Speed Controls adjust blower speed and sound level (available separately) – see page 47

| **Polymeric Grille** | **Metal Grille** | **In-Line Ventilators** |
|---|---|---|



- Removable access panel, no insulation
- Two 6" round duct connectors

**Model L100**
- 120V, 1.1 amps
- White polymeric grille

**Model L150**
- 120V, 1.3 amps
- White polymeric grille
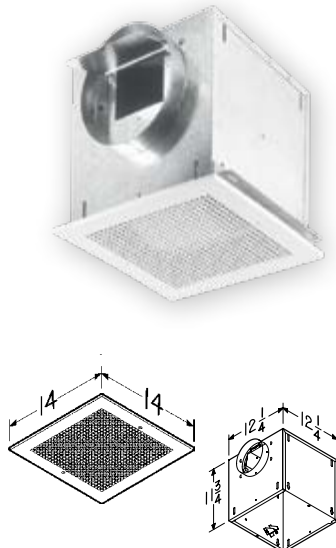
**Model L100MG**
- 120V, 1.1 amps
- White enamel steel grille

**Model L150MG**
- 120V, 1.3 amps
- White enamel steel grille

**Model L100L** (shown)
- 120V, 1.1 amps
- No grille

**Model L150L**
- 120V, 1.3 amps
- No grille

| Model | CFM | Sones | Notes |
|---|---|---|---|
| **L100** | 109 | 0.9 | White polymeric grille |
| **L150** | 157 | 1.5 | White polymeric grille |
| **L100MG** | 115 | 0.9 | White Metal grille |
| **L150MG** | 161 | 1.4 | White Metal grille |
| **L100L** | 106 | 0.7 | In-line/Suitable for kitchens |
| **L150L** | 147 | 1.1 | In-line/Suitable for kitchens |

Sones and CFM listed for ceiling mount models are for horizontal ducting at .125" static pressure. For In-line models, performance listed is for straight-thru ducting at .125" static pressure. For complete Sones and CFM at other static pressures, see our web site at www.Broan.com.

**Adjust ventilation easily in any room.**
Model 80L Variable Speed Control mounts inside the fan housing and allows blower speed adjustment to balance ventilation.
- For Broan High Capacity Fans L100–L900L
- Speed control with metal housing
- Fan insulation is perforated for easy installation
- 120 V, 3 amps, 60 Hz
- UL Listed

## 200/250/300 CFM High Capacity Fan Features

- 8" round duct connector
- Single, impact-resistant centrifugal blower wheel (Model L300KMG has a metal wheel)
- 20 gauge galvanized steel housing
- Duct horizontally or vertically

- In-line ducting available with separate adapter
- Models L200L, L250L and L300L are UL Listed for use over bathtubs or showers when connected to a GFCI branch circuit
- Use Broan Electronic Variable Speed Control to adjust blower speed and sound level (available separately)

### Polymeric Grille
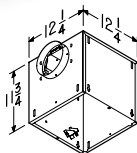
**Model L200** (shown)
- 120V, 1.8 amps

**Model L250**
- 120V, 2.1 amps

**Model L300**
- 120V, 2.6 amps
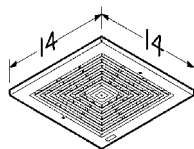
### Metal Grille
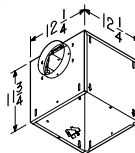
**Model L200MG** (shown)
- 120V, 1.8 amps

**Model L250MG**
- 120V, 2.1 amps

**Model L300MG**
- 120V, 2.6 amps

**Model L300KMG**
- Suitable for kitchen installations
- 120V, 2.6 amps
- Metal wheel
- Order Aluminum Filter LAF1
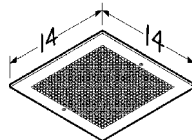
### In-Line Ventilators
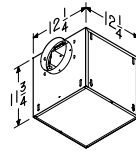
- Suitable for kitchen installations
- Removable access panel – no insulation

**Model L200L** (shown)
- 120V, 1.8 amps

**Model L250L**
- 120V, 2.1 amps

**Model L300L**
- 120V, 2.6 amps

| Model | CFM | Sones | Notes |
|---|---|---|---|
| L200 | 210 | 1.7 | White polymeric grille |
| L200MG | 215 | 1.9 | White Metal grille |
| L200L | 195 | 1.9 | In-line |
| L250 | 259 | 2.2 | White polymeric grille |
| L250MG | 265 | 2.5 | White Metal grille |
| L250L | 245 | 2.3 | In-line |
| L300 | 308 | 2.9 | White polymeric grille |
| L300MG | 316 | 3.0 | White Metal grille |
| L300L | 293 | 3.1 | In-line |
| L300KMG | 277 | 3.1 | White Metal grille |

Sones and CFM listed for ceiling mount models are for horizontal ducting at .125" static pressure. For In-line models, performance listed is for straight-thru ducting at .125" static pressure. For complete Sones and CFM at other static pressures, see our web site at www.Broan.com.

**Adjust ventilation easily in any room.**
Model 80L Variable Speed Control mounts inside the fan housing and allows blower speed adjustment to balance ventilation.
- For Broan High Capacity Fans L100–L900L
- Speed control with metal housing
- Fan insulation is perforated for easy installation
- 120 V, 3 amps, 60 Hz
- UL Listed

## 400/500/700 CFM High Capacity Fan Features

- 4-1/2" x 18-1/2" duct connector
- Painted white enamel steel grille
- Two impact-resistant centrifugal blower wheels
- Duct horizontally or vertically – In-line available with separate adapter

- Quiet automatic backdraft dampers
- Use Broan Electronic Variable Speed Control to adjust blower speed and sound level (available separately)
- Models with "K" suffix suitable for kitchens

### Metal Grille
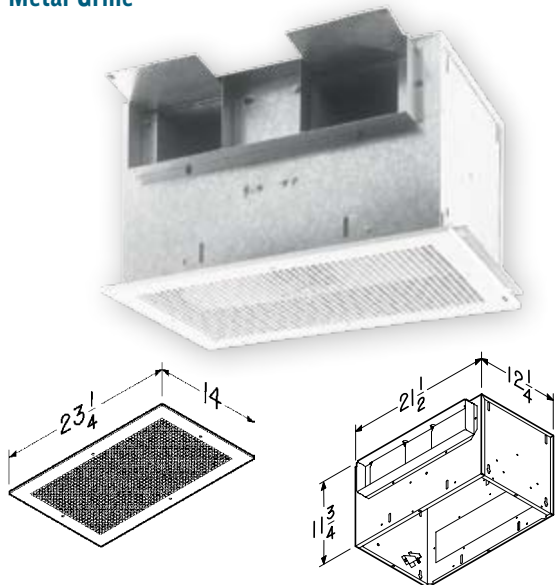
**Model L400** (shown)
- 120V, 1.4 amps

**Model L400K**
- Suitable for kitchen use
- Two metal centrifugal blower wheels
- Order Aluminum Filter LAF2

**Model L500**
- 120V, 2.2 amps

**Model L500K**
- Two metal centrifugal blower wheels
- 120V, 2.2 amps
- Order Aluminum Filter LAF2

**Model L700**
- 120V, 2.9 amps

### In-Line Ventilators

**Model L400L** (shown)
- In-line model has removable access panel and no insulation
- 120V, 1.4 amps

**Model L500L**
- In-line model has removable access panel and no insulation
- 120V, 2.2 amps

**Model L700L**
- Removable access panel – no insulation
- 120V, 2.9 amps

| Model | CFM | Sones | Notes |
|---|---|---|---|
| L400 | 434 | 2.3 | Metal Grille |
| L400K | 406 | 3.3 | Suitable for kitchens |
| L400L | 406 | 1.6 | In-line |
| L400KL | 375 | 3.1 | — |
| L500 | 514 | 3.3 | Metal Grille |
| L500K | 481 | 4.4 | Suitable for kitchens |
| L500L | 519 | 3.4 | In-line |
| L500KL | 472 | 3.8 | — |
| L700 | 701 | 4.7 | Metal Grille |
| L700L | 681 | 3.7 | In-line |

**Adjust ventilation easily in any room.**
Model 80L Variable Speed Control mounts inside the fan housing and allows blower speed adjustment to balance ventilation.
- For Broan High Capacity Fans L100–L900L
- Speed control with metal housing
- Fan insulation is perforated for easy installation
- 120 V, 3 amps, 60 Hz
- UL Listed

Sones and CFM listed for ceiling mount models are for horizontal ducting at .125" static pressure. For In-line models, performance listed is for straight-thru ducting at .125" static pressure. For complete Sones and CFM at other static pressures, see our web site at www.Broan.com.

# **Broan Ventilation Fans**—High Capacity

## 900 and 1500 CFM Fans

### Metal Grille



### In-Line Ventilators



## 2000 CFM Fans
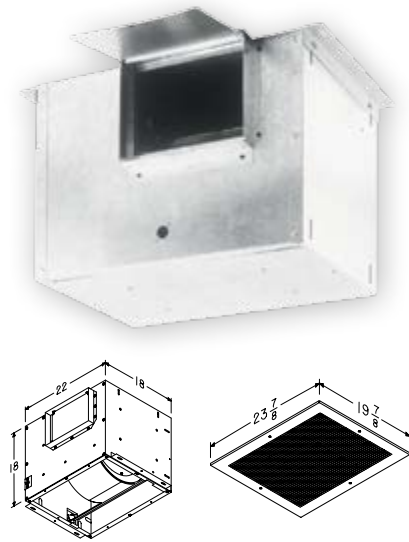


- 8" x 12" duct
- Sound-absorbing acoustic insulation
- Painted white enamel steel grille
- Single, impact-resistant centrifugal blower wheel
- Ducted horizontally or vertically, or in-line with separate adapter
- Use Electronic Variable Speed Control to adjust blower speed and sound level (available separately)

### Model L900 (shown)
- 120V, 3.0 amps
- L900 can use the 80L variable speed blower control (sold separately)

### Model L1500
- 120V, 5.0 amps
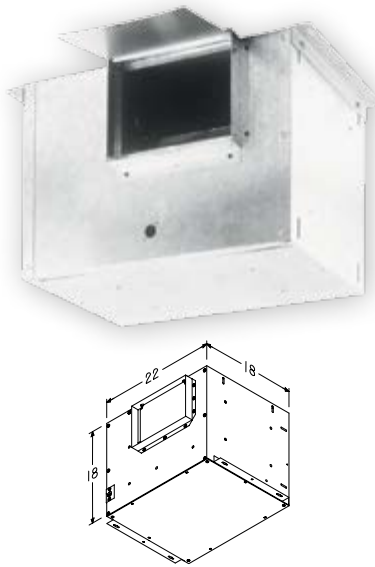
### Model L900L
- Removable access panel – no insulation
- 120V, 3.0 amps
- L900L can use the 80L variable speed blower control (sold separately)

### Model L1500L
- Removable access panel – no insulation
- 120V, 5.0 amps
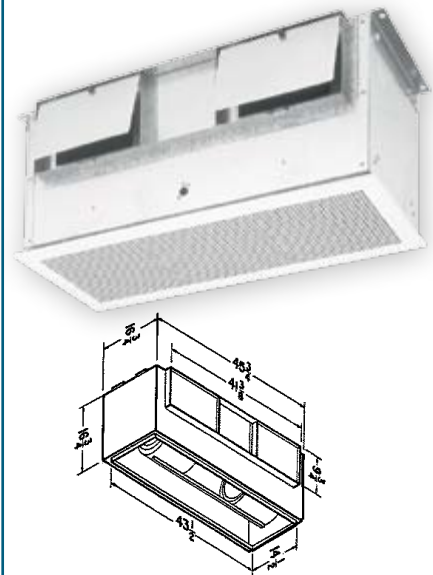
### Model L2000L (shown)
- 38"L x 14-5/8"W x 14-5/8"H
- Fits 7-3/4" x 33-3/4" duct
- 120V, 5.8 amps
- Optional metal grille (Model G102) and damper kit (Model D100)

| Model | CFM | Sones | Notes |
|-------|-----|-------|-------|
| **L900** | 901 | 4.1 | – |
| **L900L** | 894 | 3.8 | In-line |
| **L1500** | 1513 | 8.4 | – |
| **L1500L** | 1214 | 6.7 | In-line |
| **L2000L** | 1791 | 9.4 | In-line |

Sones and CFM listed for ceiling mount models are for horizontal ducting at .125" static pressure. For In-line models, performance listed is for straight-thru ducting at .125" static pressure. For complete Sones and CFM at other static pressures, see our web site at www.Broan.com.

## Roof Caps

### Model 437
- High-capacity design up to 1200 CFM
- Built-in bird screen
- Steel housing, black electrically bonded epoxy finish
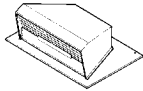
### Model 611
- For flat roof installation
- Aluminum natural finish
- For up to 8" round duct
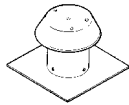
### Model 611CM
- For curb mount installation
- Other features same as Model 611
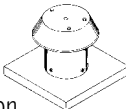
### Model 612
- For flat roof installation
- Aluminum natural finish
- For up to 12" round duct

### Model 612CM
- For curb mount installation
- Other features same as 612

### Model 634
- For 3-1/4" x 10" or up to 8" round duct
- Built-in backdraft damper and bird screen
- Steel housing, black electrically bonded epoxy finish
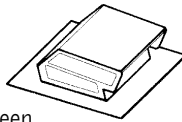
### Model 634M
- Same as Model 634, except for 6" round duct

### Model 644
- Same as Model 634, except aluminum natural finish

## Grease Filters

### Models LAF1 & LAF2
- Aluminum mesh filter traps grease and protects motor
- Dishwasher safe
- LAF1 (12" x 12") for L100/150/200/250/300 Series
- LAF1 for use with metal grilles
- LAF2 (12" x 21-1/4") for L400/500 Series
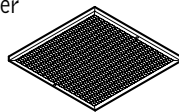
## Wall Caps

### Model 441
- For 10" round duct
- Steel with aluminum louvers
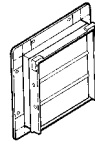
### Model 613
- For 12" round duct
- Built-in backdraft damper and bird screen
- Aluminum natural finish
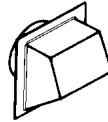
### Model 641
- Same as Model 613, except for 6" round duct

### Model 643
- For 8" round duct
- Built-in backdraft damper and bird screen
- Aluminum natural finish
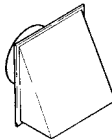
## In-line Adapters

### Model 961L
- For L100/L150 Series
- Galvanized steel
- 6" round duct intake
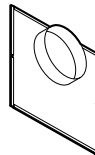
### Model 981L
- For L200/L250/L300 Series
- Galvanized steel
- 8" round duct intake
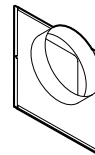
### Model 982L
- For L400/L500/L700 Series
- Galvanized steel
- 4-1/2" x 18-1/2" duct intake
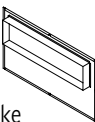
### Model 983L
- For L900/L1500 Series
- Galvanized steel
- 8" x 12" duct intake

## Duct Transitions

### Models 423 & T81212
- Galvanized steel
- Transition quickly, easy to obtain/install round ducting
- 423: (4-1/2" x 18-1/2" to 10" round)
- T81212: (8" x 12" to 12" round)
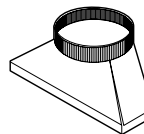
## Vibration Dampening Hampers
(Not shown)

### Model V104
- For Model L2000L
- Heavy gauge steel construction
- Neoprene vibration dampening cushion
- Maximum load 75 lbs (each)
- For 3/8" diameter threaded rod (available separately from others)
- Set of four required for each ventilator

## Metal Grille Kit

### Model MG1
- For L100/150/200/250/300 Series
- White enamel painted steel
- Mounting screws included
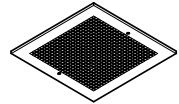
## Radiation Dampers/Fans

**A fire resistant screen** automatically closes when excessive heat is detected. The breakaway fusible link triggers the closing of the radiation damper's fire resistant screen to prevent smoke and fire from traveling through the ductwork.

### Features
- 165° fusible link
- Galvanized Steel Frame
- Stainless steel negator-type closure spring

### High Capacity Models RD1, RD2 & RD3
- UL rated 3-hour ceiling radiation dampers
- High temperature, non-asbestos, reinforced fiber thermal fabric
- RD1 (12-1/2" x 12-1/2") for L100/150/200/250/300 Series
- RD2 (21-3/4" x 12-1/2") for L400/500/700 Series
- RD3 (22-1/4" x 18-1/4") for L900/1500 Series
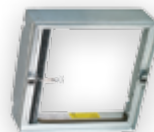
## If you listen very closely, you'll discover it's also a ventilation fan.

**Ultra Silent™ Humidity Sensing Fan/Lights with Sensaire® technology.**
Broan Sensaire® technology detects rapid increases in moisture levels at the ceiling, where steam and humidity naturally rise, and automatically turns the fan on. With a fan this quiet, automatic shutoff saves worry, and money. Sensaire® technology is a perfect solution for high traffic bathrooms, the kids' bathroom or for anyone who leaves the house before humidity is properly vented.

**QTX110SL & QTXE110SFLT Models**

**Hands-free solutions to fighting excess humidity and mold.**
Broan's Ultra Silent™ humidity sensing fan/light turns the fan on and off automatically to help prevent cosmetic and possible mold problems associated with excess moisture.

• Detects a rapid rise in humidity
• Humidity is sensed at the ceiling level
• Sensitivity level is adjustable
• Easy-to-set shut-off timer: 5–60 minutes
• UL Listed for use over tub or shower when installed in a GFCI protected branch circuit
• Includes hanger bars for fast, flexible installation in all types of construction
• HVI Certified
• Fits 2" x 8" ceiling construction

**Broan Ultra Silent™ Series Fan Lights.** The Ultra Silent™ line is the ultimate bath fan solution for today's homes. Select an Ultra Silent™ Series fan/light to bring simple elegance to any bath or powder room. By sight or by sound, you'll barely notice an Ultra Silent™ fan. Except, of course, when you need just the right amount of ventilation and light at the touch of a switch.

## QTXE, QTRE and QTR Fan/Light Features

- Nearly silent operation <0.3 to 1.4 sones
- 80 CFM to 150 CFM
- QTXE models feature 6" ducting for superior performance
- QTRE and QTR models feature 4" ducting
- QTRE and QTXE models are Energy Star qualified
- Bright, energy efficient 42 watt fluorescent bulb included with QTXE and QTRE models
- 100 watt lighting from an incandescent bulb on QTR models
- 4 watt nightlight on all models

- QTXE, QTRE and Housing Project Packs include hanger bar system for fast and flexible installation for all types of construction
- Motor engineered for continuous operation
- UL Listed for use over bathtubs or showers when connected to a GFCI protected branch circuit
- HVI Certified
- Type IC
- Fits 2" x 8" ceiling construction

### QTXE Models



### QTRE and QTR Models
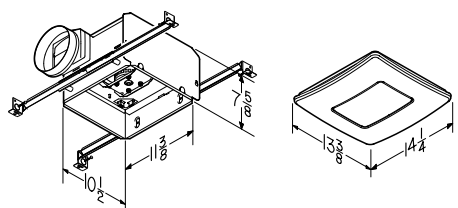


| Model | CFM | Sones | Light/ nightlight | Energy Star | Title 24 | Duct |
|-------|-----|-------|-------------------|-------------|----------|------|
| **QTXE080FLT** | 80 | 0.3 | 42W / 4W | Yes | Yes | 6"▲ |
| **QTXE110FLT** | 110 | 0.7 | 42W / 4W | Yes | Yes | 6"▲ |
| **QTXE110SFLT*** | 110 | 0.7 | 42W / 4W | Yes | Yes | 6"▲ |
| **QTXE150FLT** | 150 | 1.4 | 42W / 4W | Yes | Yes | 6"▲ |
| **QTX110SL*** | 110 | 0.9 | 100W / 4W | — | — | 6"▲ |
| **QTRE080FLT** | 80 | 0.8 | 42W / 4W | Yes | Yes | 4" |
| **QTRE110FLT** | 110 | 1.3 | 42W / 4W | Yes | Yes | 4" |
| **QTR080L** | 80 | 1.0 | 100W / 4W | — | — | 4" |
| **QTR110L** | 110 | 1.5 | 100W / 4W | — | — | 4" |

Energy Star fans use 65% less energy, on average, than standard models and may qualify for local utility rebates.

▲ See page 50 for 6" ducting (DT6W) product specifications.

* Humidity sensing

Fluorescent lighting, Title 24 compliant.
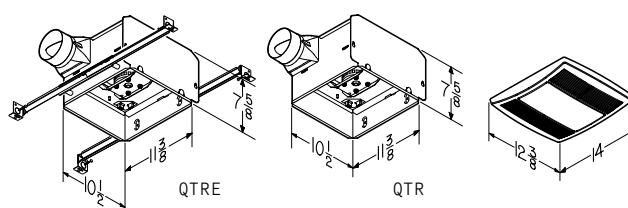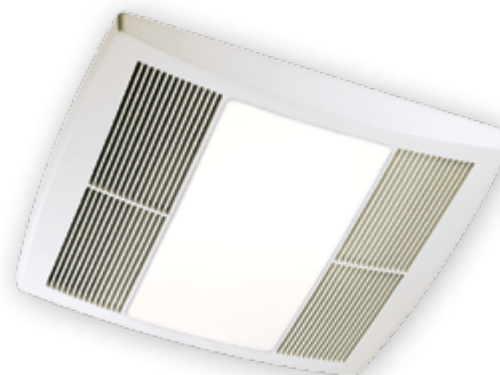
### Project Packs Available for QTRE Models

To simplify installation, Project Packs are available with either four fan or fan/light housings only. When drywall work and painting is complete, the fan components needed to finish the job are available in single packs under separate model numbers. These finish kits include the motor plate, motor, wheel and grille. See the matrix below for Project Pack order information.

| Project Pack | Kit number: | For model: |
|--------------|-------------|------------|
| **Four-pack of FAN/LIGHT housings only:** | QTXR000HL | |
| **One-pack finish kits for FAN/LIGHT models:** | QTRE080FLFT QTRE110FLFT | QTRE080FLT QTRE110FLT |



QTRE080FLFT
QTRE110FLFT

QTXR000HL

# Broan Ventilation Fan/Lights—Decorative

**A beautiful balance of elegance and performance.** Now you can ventilate while adding quiet elegance and exceptional design to your bathroom or any other room in your home. The Broan series of decorative fan/lights delivers quality ventilation performance and complements your room with beautifully styled glass globe lighting. These fan/lights are available in corrosion-resistant decorator finishes.

## Decorative Fan/Light Fixture Features

- 70 or 80 CFM
- 3.5 or 2.5 Sones
- Corrosion-resistant finishes
- Beautifully styled glass globes
- Use two 60-watt incandescent candelabra bulbs (not included)
- Plug-in lighting fixture and permanently lubricated motor

- Polymeric blower wheel
- Sturdy, keyholed mounting brackets for quick, accurate installation
- Fits 2" x 6" ceiling construction
- Tapered, polymeric 4" round duct fitting for easy, positive duct connection and no metallic clatter
- Type IC

### Model 754RB

### Model 754SN

| Model | CFM | Sones | Lighting | Finish | Glass |
|-------|-----|-------|----------|--------|-------|
| **754RB** | 70 | 3.5 | 2-60W Candelabra | Oil-rubbed Bronze | White Alabaster |
| **754SN** | 70 | 3.5 | 2-60W Candelabra | Satin Nickel | White Alabaster |

Models 754RB, 754SN

**Model 741SN**

**Model 741WH**

**Model 757SN**

| Model | CFM | Sones | Lighting | Finish | Glass |
|-------|-----|-------|----------|--------|-------|
| **741SN** | 70 | 3.5 | *120W Incandescent | Satin Nickel | Frosted |
| **741WH** | 70 | 3.5 | *120W Incandescent | Gloss White | Frosted |
| **757SN** | 80 | 2.5 | 2-60W Candelabra | Satin Nickel | Frosted |

*Two (2) standard 60-watt bulbs.
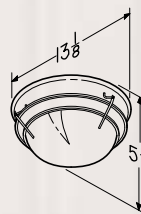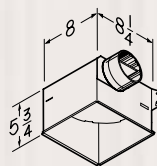
Model 757SN    Model 741

® 2100
HVI
CERTIFIED

You'd never know it's a fan,
and that's the point.

Broan took recessed lighting a step further by incorporating powerful ventilation in the same design. These fan/lights disappear into the ceiling with other recessed lights, so they are practical decorating solutions for any room in the house. In the bath they control humidity, and in a utility room, kitchen or high-traffic family room they keep the air fresh and comfortable.

### Recessed Fan/Light
• High efficiency centrifugal fan delivers 70 CFM at 1.5 sones
• Trim matched to designs of major recessed light manufacturers
• Put multiple units in larger rooms
• Model 744 uses a 75 watt bulb, either R30 or BR30 for standard applications
• Model 744FL uses a 14 watt R30 shaped fluorescent bulb
• UL Listed for use over bathtubs or showers when connected to a GFCI protected branch circuit. Model 744 also requires a PAR30L or PAR30LN type bulb.
• 6-7/8" high housing appropriate for new construction and 2" x 8" ceiling joists
• 4" round duct connector
• Not for use over cooking surfaces
• Optional wall control switches available
• Type IC, sealed housing

### Model 744



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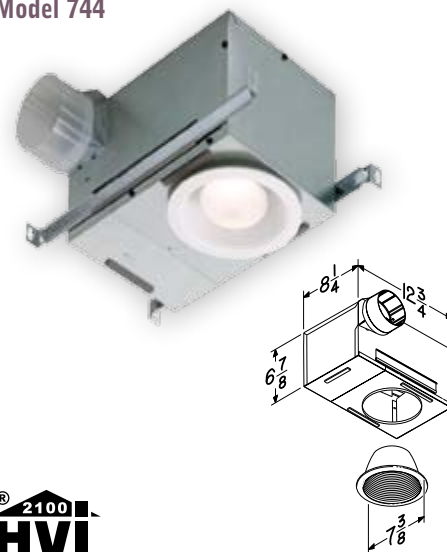
| Model | CFM | Sones | Lighting | Energy Star | Title 24 |
|-------|-----|-------|----------|-------------|----------|
| **744** | 70 | 1.5 | 75W | — | — |
| **744FL** | 70 | 1.5 | 14W Fluor. | Yes | Yes |

Energy Star fans use 65% less energy, on average, than standard models and may qualify for local utility rebates.

Fluorescent lighting, Title 24 compliant.

## Fan/Light Combination Unit Features

- Classic white polymeric grilles
- Plug-in, permanently lubricated motor
- Efficient polymeric fan impeller
- Mounting ears offer sturdy, quick installation

- UL Listed for use over bathtubs or showers when connected to a GFCI protected branch circuit
- Polymeric duct connectors with tapered sleeves for easier, positive ducting

- Fits 2" x 6" ceiling construction
- Shatter resistant lighting lenses
- Select models available in Project Packs
- Recommended with optional two-function wall control
- Type IC

### Model 657 & 696

### Model 750 & 751

### Model HD50L & HD80L, Heavy Duty

- Heavy Duty™ units last up to three times longer than residential units
- Enclosed motor design for continuous operation
- High-efficiency centrifugal blower wheel
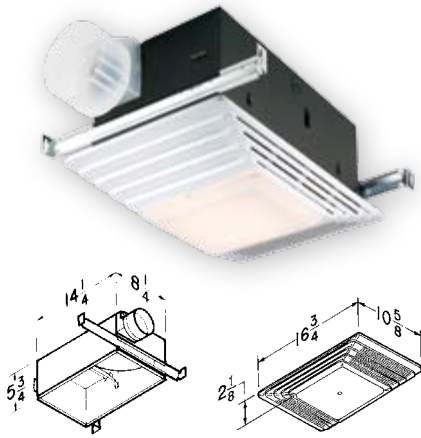
### Model 678, 679, 679FLT, 680 & 680FLT
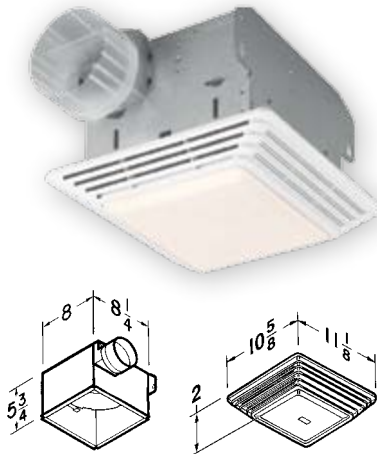
- Round design eliminates squaring with bathroom walls
- Model 751 is the same as Model 750 without a nightlight
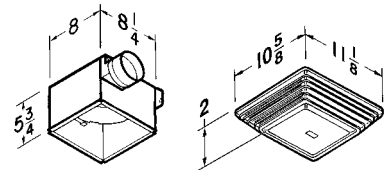
| Model | CFM | Sones | Lighting | Notes |
|-------|-----|-------|----------|-------|
| 678 | 50 | 2.5 | 100 W | |
| 679 | 70 | 3.5 | 100 W | |
| 679FLT | 70 | 3.5 | 13 W | Fluorescent, double twin-tube |
| 680 | 100 | 4.0 | 100 W | |
| 680FLT | 100 | 4.0 | 13 W | Fluorescent, double twin-tube |
| 657 | 70 | 4.0 | 100 W | |
| 696 | 100 | 4.5 | 100 W | |
| 750 | 100 | 3.5 | 100 W | White finish with 7W nightlight |
| 751 | 100 | 3.5 | 100 W | White finish, no nightlight |
| HD50L | 50 | 1.5 | 100 W | Heavy-duty motor |
| HD80L | 80 | 2.5 | 100 W | Heavy-duty motor |

**HVI CERTIFIED** ® 2100

Fluorescent lighting, Title 24 compliant.

# Comfort and convenience combined.

**Broan Ultra Silent™ Series Heater/Fan/Lights.** You could wait 15 minutes for your central heating system to take the chill from your bathroom, all while it heats every other room in the house. Or, you could select instant heat when it's needed with the QTX line. Powerful heating, light and ventilation are available at the touch of a switch. And with our PowerHeat™ design, you're assured that the energy converted to heat is efficiently delivered back to you.

## QTX Heater/Fan/Light Features

- Heater/Fan/Light/Nightlight brings convenient, comforting warmth to your bathroom
- Nearly silent operation – 0.9 sone, 110 CFM fan
- Quiet, high-output 1500 watt heater with exclusive PowerHeat™ design (see below)
- 6" ducting for superior performance
- 7 watt nightlight

- Choice of bright 120 watt incandescent (2-60W) or energy efficient 36 watt GU24 fluorescent (2-18W, bulbs included)
- Fan motor is engineered for continuous operation
- HVI Certified
- Type IC
- Requires a dedicated 20 amp circuit
- Fits in 2" x 8" ceiling construction

### QTX Heater/Fan/Light

**PowerHeat™** is a Broan design which maximizes heat output per watt. By placing the heater element very close to the forced air exit grille, the internal components are not heated. Heat is delivered into the bathroom and does not escape into the ceiling or attic space.
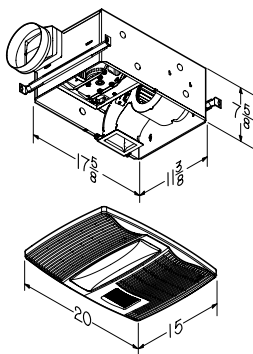
| Model | CFM | Sones | Bath Sq. Ft. | Lighting/ Nightlight | Heater Watts | |
|---|---|---|---|---|---|---|
| **QTX110HL** | 110 | 0.9 | 100 | 120W Incandescent (2-60W) / 7W | 1500 | |
| **QTX110HFLT*** | 110 | 0.9 | 100 | 36W Fluorescent (2-18W)** / 7W | 1500 | **Available July 2009** |

* Fluorescent lighting, Title 24 compliant.
** Bulbs Included

# Broan Heater/Fan/Lights

**Broan Directionally-Adjustable Heater/Fan/Lights.** You don't need to heat the entire house to have a comfortable bathroom first thing in the morning. And it simply doesn't make sense to wait for your central heating system to do what Broan can do instantly. Our Heater/Fan/Light provides powerful heating, light and ventilation at the touch of a switch. And with our 360° directionally-adjustable heat outlet, you're assured the heat will end up exactly where you need it.

## Heater/Fan/Light Features

- Heater/Fan/Light brings convenient, comforting warmth to your bathroom
- Quiet operation – 2.0 sone, 100 CFM ventilation fan
- Quiet, high-output 1500-watt heater with exclusive directionally adjustable design (see below)
- 4" ducting for new construction or retrofit
- Multi-function wall switches sold separately

- Choice of bright 100-watt incandescent or energy-efficient 27-watt GU24 (bulb included) fluorescent lighting
- Fan motor is engineered for continuous operation
- HVI Certified
- Type IC
- Requires a dedicated 20 amp circuit
- Fits 2" x 6" ceiling construction

### 100HL & 100HFL Heater/Fan/Light

*Direct the Heat Where You Want It!*
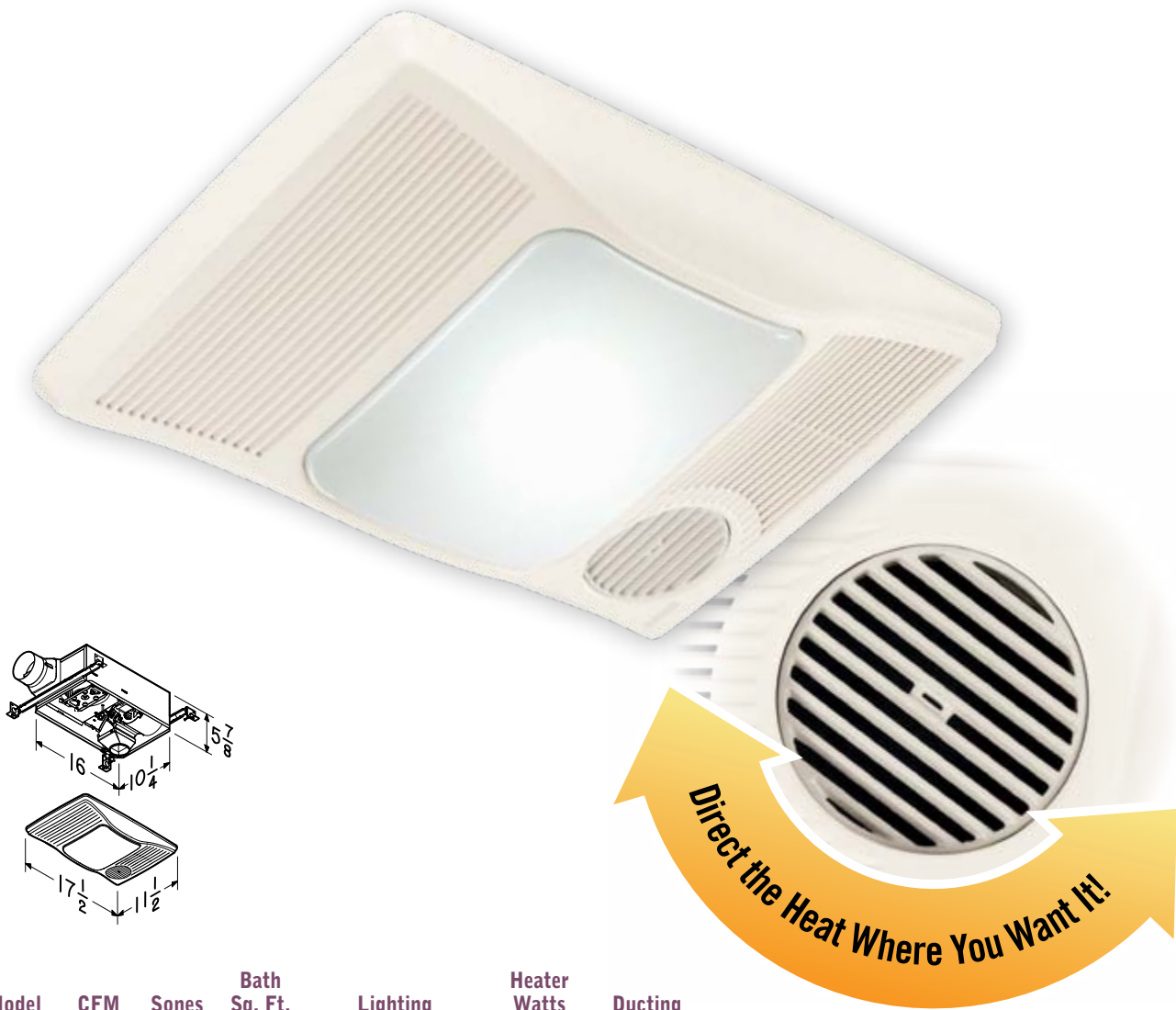
| Model | CFM | Sones | Bath Sq. Ft. | Lighting | Heater Watts | Ducting |
|-------|-----|-------|--------------|----------|--------------|---------|
| **100HL** | 100 | 2.0 | 90 | 100W Incandescent | 1500 | 4" |
| **100HFL** | 100 | 2.0 | 90 | 27W GU24 Fluorescent* | 1500 | 4" |

Fluorescent lighting is Title 24 compliant.
* Bulb Included

## Heaters & Heater Fans

- Designer white polymeric grilles complement virtually any décor
- Two- or three-function wall controls are available separately
- 1300-watt heaters
- Fan, light and heater function independently or together
- Type IC
- Fits 2" x 6" ceiling construction

### Model 655, 659, 656
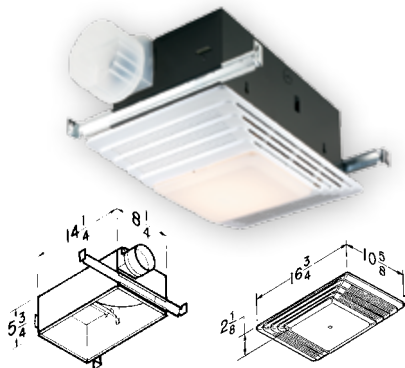
### Model 655
- 20-amp circuit required

### Model 659
- 15-amp circuit required

### Model 656
- 15-amp circuit acceptable
- Heater/Light ONLY

### Model 658
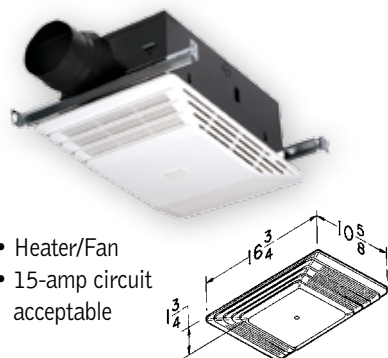
- Heater/Fan
- 15-amp circuit acceptable

| Model | CFM | Sones | Lighting | Heater |
|-------|-----|-------|----------|--------|
| 655 | 70 | 4.0 | 100W | 1300W |
| 656 | – | – | 100W | 1300W |
| 658 | 70 | 4.0 | No Light | 1300W |
| 659 | 50 | 2.5 | 100W | 1300W |

## Bulb Heater Fans. Silent warmth and superior ventilation. Trust Broan Bulb Heater/Fans and Bulb Heaters for energy-saving warmth and instant comfort without ever having to touch your central thermostat. These units deliver superior performance and excellent ventilation in a compact package.

### Bulb Heater/Fan Features

- Quiet, highly efficient polymeric blower wheels
- Polymeric dampers prevent backdrafts and eliminate mechanical noise
- Polymeric 4" round duct connectors with tapered sleeves simplify ducting
- Operate fan and heater independently or together
- Attractive white polymeric grilles
- Compact steel housings with adjustable mounting brackets with keyhole slots that span up to 24"
- 250-watt R40 or BR40 size infrared bulbs (not included)
- Type IC, UL Listed for 60°C wiring (retrofits)

### Model 162
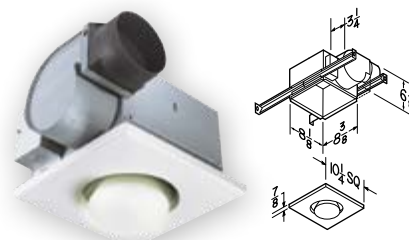
- One-Bulb Heater/Fan

### Model 164
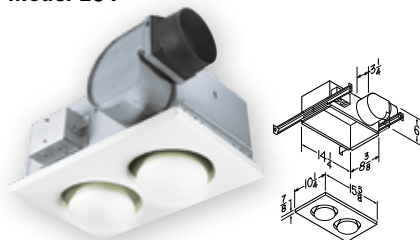
- Two-Bulb Heater/Fan
- Two-function control (available separately)

| Model | CFM | Sones | Heat |
|-------|-----|-------|------|
| 162 | 70 | 3.5 | 250W* |
| 164 | 70 | 3.5 | 500W* |

*Bulbs not included

**HVI 2100 CERTIFIED**

### One or Two-Bulb Heaters—No Fan

- Infrared bulbs deliver energy-saving warmth
- Get instant comfort in the bathroom without turning up the central thermostat
- 250-watt R40/BR40 size infrared bulbs (not included)
- Attractive, white polymeric grilles
- Compact steel housings
- Adjustable mounting brackets with keyhole slots span up to 24"

### Model 161
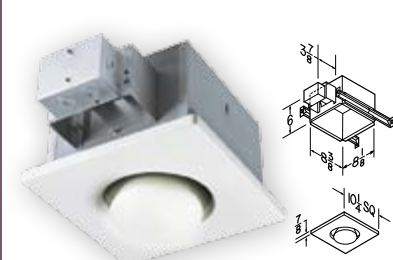
- One-Bulb Heater
- Model 161, UL Listed for 75°C wiring (retrofits)
- Type IC

### Model 163
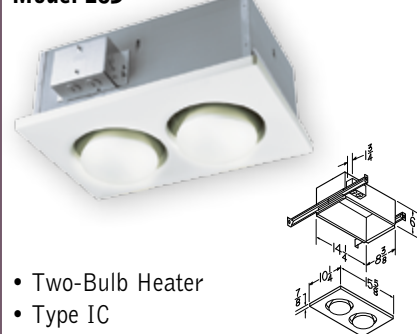
- Two-Bulb Heater
- Type IC

| Model | Watts | Volts | Amps |
|-------|-------|-------|------|
| 161* | 250 | 120 | 2.1 |
| 163 | 500 | 120 | 4.3 |

*9412D is not IC rated

# Push the heat out. Pull a fresh breeze through.

Too often, attic ventilation is overlooked, not to mention ignored as a place for energy savings. That's where Broan solutions make sense. Consider this: air trapped in your attic can easily reach 150˚ or more. With Broan ventilation solutions, it's still a full 60˚ cooler in the attic on a 90˚ day. That's why attic ventilation is critical to making any home more comfortable while lowering energy costs. Air-conditioners can run less and won't have to work as hard. Humid, stagnant air can be removed, drawing fresh dry air across the surfaces. Your attic can be drier and cooler—the perfect tools to help fight potential moisture damage.

### Determining the CFM* requirements for your attic

| Roof Pitch | | Gable Mount | | Roof Mount | | | | |
| --- | --- | Model 353 | Model 35316 | Model 349BR | Model 350BR/350BK | Model 355BR/355BK | Model 356BR/356BK | Model 358 |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| | | 900/1140 CFM** | 1160/1600CFM** | 1000 CFM | 1050 CFM | 1200 CFM | 1600 CFM | 1200 CFM |
| 8/12 or Less | Light Roof | 1285/1630 sq. ft. Attic | 1658/2285 sq. ft. Attic | 1490 sq. ft. Attic | 1500 sq. ft. Attic | 1715 sq. ft. Attic | 2285 sq. ft. Attic | 1715 sq. ft. Attic |
| | Dark Roof | 1125/1425 sq. ft. Attic | 1442/1985 sq. ft. Attic | 1290 sq. ft. Attic | 1304 sq. ft. Attic | 1495 sq. ft. Attic | 1985 sq. ft. Attic | 1495 sq. ft. Attic |
| 9/12 | Light Roof | 1200/1520 sq. ft. Attic | 1549/2135 sq. ft. Attic | 1180 sq. ft. Attic | 1399 sq. ft. Attic | 1600 sq. ft. Attic | 2135 sq. ft. Attic | 1600 sq. ft. Attic |
| | Dark Roof | 045/1325 sq. ft. Attic | 1347/1855 sq. ft. Attic | 1200 sq. ft. Attic | 1219 sq. ft. Attic | 1390 sq. ft. Attic | 1855 sq. ft. Attic | 1390 sq. ft. Attic |
| 12/12 | Light Roof | 675/855 sq. ft. Attic | 870/1200 sq. ft. Attic | 782 sq. ft. Attic | 790 sq. ft. Attic | 900 sq. ft. Attic | 1200 sq. ft. Attic | 900 sq. ft. Attic |
| | Dark Roof | 590/750 sq. ft. Attic | 757/1055 sq. ft. Attic | 684 sq. ft. Attic | 694 sq. ft. Attic | 790 sq. ft. Attic | 1055 sq. ft. Attic | 790 sq. ft. Attic |
| 15/12 | Light Roof | 420/530 sq. ft. Attic | 559/770 sq. ft. Attic | 501 sq. ft. Attic | 508 sq. ft. Attic | 575 sq. ft. Attic | 770 sq. ft. Attic | 575 sq. ft. Attic |
| | Dark Roof | 375/475 sq. ft. Attic | 486/670 sq. ft Attic | 427 sq. ft. Attic | 430 sq. ft. Attic | 505 sq. ft. Attic | 670 sq. ft. Attic | 505 sq. ft. Attic |

### How to calculate the pitch of your roof
PITCH is the angle of your roof, or the RISE in feet for every 12 feet of RUN. Pitch is determined by measuring the height of the attic (in feet) at a point that is 12 feet from where the roof rafters and the attic floor joists meet.

### Example: 8/12 Roof Pitch
A roof that is 8 feet high at a point 12 feet from where the roof rafters meet the ceiling joists has a pitch of 8/12.

Roof rafters

Attic floor joist

8'

12'

**Model 349BR**

**Model 358**

Model 356BR shown.

**Models
350BK/355BK/356BK**
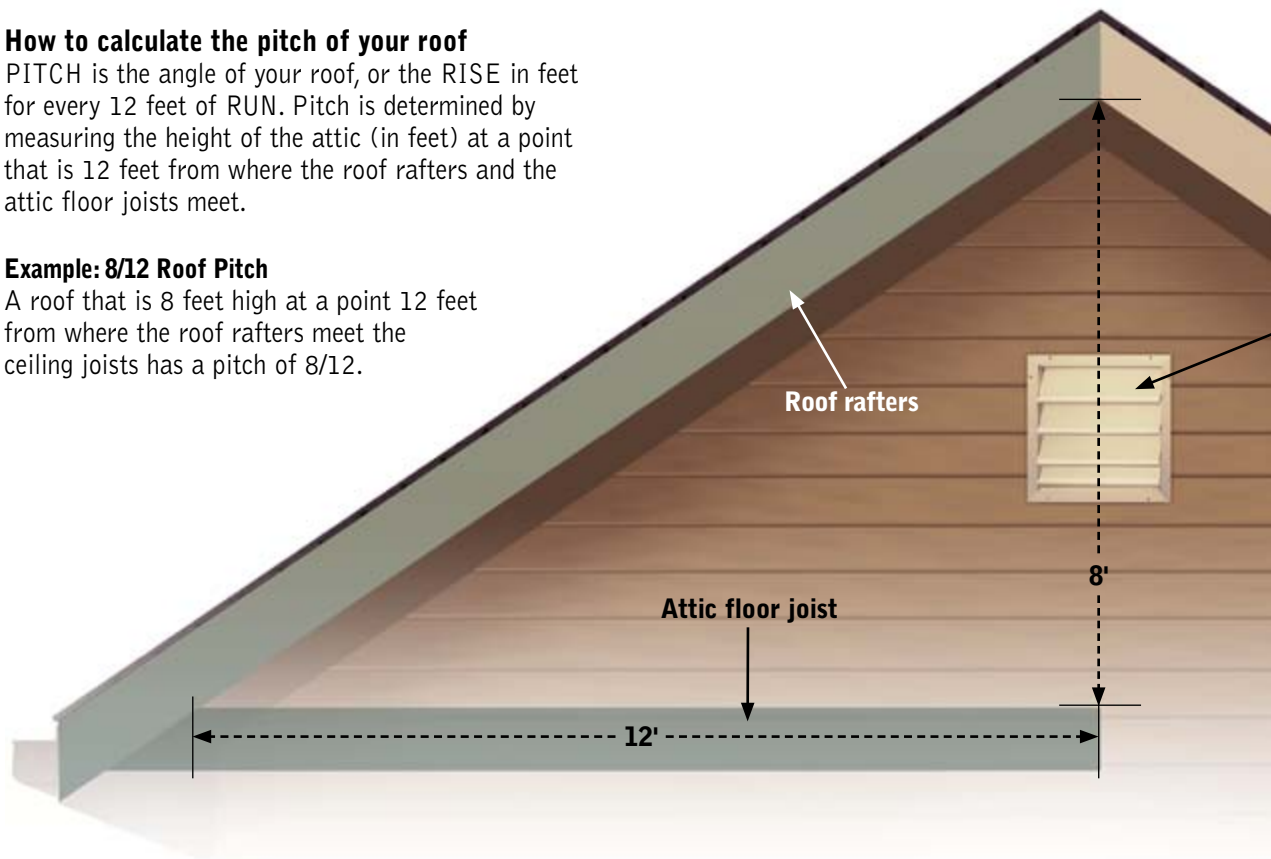
**Models
350BR/355BR/356BR**

## Powered Attic Ventilator Specifications

| | Gable Mount | | Roof Mount | | | | |
|---|---|---|---|---|---|---|---|
| | Model 353† | Model 35316† | Model 349BR | Models 350BR/350BK | Models 355BR/355BK | Models 356BR/356BK | Model 358 |
| **Attic Size** | Up to 1630 sq. ft. | Up to 2285 sq. ft. | Up to 1400 sq. ft. | Up to 1500 sq. ft. | Up to 1715 sq. ft. | Up to 2285 sq. ft. | Up to 1715 sq. ft. |
| **Amps** | 3.4 | 3.9 | 4 | 3.6 | 4.3 | 8.0 | 4.3 |
| **CFM*** | 1140/900** | 1600/1160 | 1000 | 1050 | 1200 | 1600 | 1200 |
| **RPM** | 950 | 1420 | 1050 | 1000 | 1050 | 1500 | 1050 |
| **Height** | - | - | 9" | 8" | 8" | 8" | 8" |
| **Dome Dia.** | - | - | 24-1/2" | 23-1/4" | 23-1/4" | 23-1/4" | 23-1/4" |
| **Dome Material** | - | - | Painted Steel | PVC | PVC | PVC | Aluminum |
| **Dome Color** | - | - | Dark Brown | Brown/Black | Brown/Black | Brown/Black | Silver |

**Wall Control Switches:** See page 47

† Model 433 Automatic Shutter Accessory sold separately. See below.
*Exhaust capacity HVI certified @ .03" static pressure.
**Higher CFM with Model 433 shutter. Lower CFM with standard wood louvre. The Home Ventilating Institute (HVI) recommends 1 sq. ft. of open air inlet per 300 CFM of fan capacity. The best location for these air intake vents is under the eaves with direct access to the attic. Vents for gable installations should be placed at the end of the house opposite the installed ventilator. Failure to provide these intakes could cause natural-draft gas appliances to backdraft.

### Model 433 Automatic Shutter
### for Gable Mount Attic Ventilators
Gable Mount Attic Ventilators for Broan models 353 and 35316 feature counter-balanced aluminum vanes that automatically open and close when the venilator turns on and off.

• Steel reinforced for strength
• Weather-tight closure
• Easy to install

### Model DH100W Humidistat
Sold separately for use with all Broan powered attic ventilators. Humidistats automatically turn on the fan when moisture in the attic is detected.

**Model 353
Gable Fan**

**Indicator Light Control
for Ultra Silent™ Products**

**Multi-function Control**

**Speed Control for quieter
operation or full power**

ON

OFF

DELAYED
OFF

**Timer and Off-delay Controls
for unattended moisture removal**

## Decorator Wall Controls

**Model 69W, 69V**
• Single-Function Controls
• 120V, 15 amps

**Model 68W, 68V**
• Two-Function Controls
• Two independent, 120V,
  15 amp rocker switches
  (20 amps total)
• Fits single-gang box
• Blister packs available
  (P68W, P68V)

**Model 65W, 65V, 66W, 66V, 67W, 67V**
• Three-Function Controls
• Three independent, 120V,
  15 amp rocker switches
  (20 amps total)
• Fits single-gang opening
• Blister packs available
  (P65W, P65V, P66W,
  P66V, P67W, P67V)
• Controls available in
  White (W) or Ivory (V)
• Wall plates available in:
  Polished brass finish (65W,
  65V); White (66W) or
  Ivory (66V); Polished
  chrome finish (67W, 67V)

**Model 77DW, 77DV**
• Four-Function Controls
• Single switch provides
  three settings for fan sensor
  (On-Auto-Off) on Sensing
  models
• Remaining switches for light/nightlight
• Works with QTX110HL heater/fan/
  light/nightlight
• Controls available in White (W) or
  Ivory (V)
• Fits single-gang opening
• Blister packs available (P77DW)

**Model 64V, 64W**
• Fan/Light Control
  with Off-Delay
• Fan and light operate
  together when control
  is turned on
• Fan continues to operate for a user
  adjustable time period 5-60 minutes
  after light is turned off
• Center position bypasses timer and
  turns fan and light off immediately
• Fits single-gang box
• 120V, 4 amps (fan), 4 amps (light)
• Requires hot and neutral wires in the
  switch box

## Indicator Light Controls

**Model 69WL, 69VL**
• Single-Function Controls
• For use with Ultra Silent™
  Series fan units, or Remote
  In-Line Ventilators
• 120V, 20 amps
• Blister packs (P69WL, P69VL)
• Red light lets you know power is on

**Model 269WL, 269VL**
• Two-Function Controls
• For use especially with
  Ultra Silent™ Series fan
  units and an auxiliary
  light source
• Lighted fan control 120V, 20 amps;
  unlighted 120/240/277V, 15 amps
• Fits two-gang box

**Model 685WL, 685VL**
• Three-Function Controls
• For use especially with
  Ultra Silent™ Series
  fan/light/ nightlight units
• Lighted fan control
  120V, 20 amps; two additional on/off
  rocker switches 120V, 15 amps each
  (20 amps total)
• Fits two-gang box
• Blister packs (P685WL, P685VL)

## Electronic Variable-Speed Wall Controls

**Model 57W, 57V** (3-Amp)*
• 120V, 3 amps
• Fits single-gang box
• Positive on/off action – dial
  for variable selection of air
  speeds and sound levels
• Built-in radio noise suppressor
• Blister packs available (P57W)

**Model 72W, 72V, 75V** (6-amp)*
• 120V, 6 amps –
  Models 72W, 72V
• 240V, 6 amps
  – Model 75V
• Other features
  same as 57W/57V

**Model 277V**
• 277V, 6 amps
• Other features same
  as 57W/57V

**Model 80L for Losone Fans**
• For Broan High Capacity
  Fans, L100–L900L
• Metal housing
• Fan insulation is perforated
  for easy installation
• 120 V, 3 amps, 60 Hz
• UL Listed

## Decorator Time Controls

**Model 59W, 59V, 71V**
• Model 59W, 59V
  – up to 60 minutes
• Model 71V – up to 12 hours
• Fits single-gang box
• 120V, 20 amps;
  240V, 10 amps
• Blister packs available
  (P59W, P59V)
• Operate continuously or
  for any set period

**Model 61W, 61V**
• 15 Minute
• Operate for any set period
  up to 15 minutes (no
  "continuous on" position)
• Other features same as 59W/59V

**Model 62W, 62V**
• 60 Minute
• Two separate 120V,
  15 amp on/off rocker
  switches (20 amps total)
• 120V, 20 amps or 240V, 10 amp timer
• Timer operates continuously or for
  any set period up to 60 minutes
• Fits two-gang box

**Model 63W, 63V**
• 60 Minute
• Separate 120V, 15 amp
  on/off rocker switch
• Other features same as
  62W/62V

## Remote In-Line Ventilator Accessories

**Model DH100W**
• Dehumidistat
• Dual voltage (24V/120V)
• Variable setting from
  20-80% relative humidity
• Usage guide included

**Model T24H**
• 24-Hour Programmable Timer
• 120V, 8 amps
• Sets up to 36 on/off cycles
  as short as 20 minutes
• Manual on/off override switch
• Fits single-gang box

| | | 57W 57V | 59W 59V | 61W 61V | 62W 62V | 63W 63V | 64W 64V | 65W 65V | 66W 66V | 67W 67V | 68W 68V | 69W | 69WL 69VL | 71V | 72W 72V | 75V | 77DW 77DV | 80L | 269WL 269VL | 685WL 685VL | DH 100W | T24H |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Utility Fans** | **502** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **503** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **504** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **505** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **506 & 507** | chain operated | | | | | | | | | | | | | | | | | | | | |
| | **508** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **509** | • | • | • | | | | | | | | • | • | | | | | | | | • | |
| | **509S¹** | | • | • | | | • | | | | | | | • | | | | | | | • | • |
| | **510²** | | • | • | | | • | | | | | | | • | | | | | | | • | • |
| | **511²** | | | | | | | | | | | | | | | | | | | | | |
| | **512 & 512M** | • | • | • | | | | | | | | • | • | • | • | | | | | | • | • |
| | **12C** | | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| **Ventilation Fans** | **670** | • | • | • | | | • | | | | | • | • | • | | | | | | | • | • |
| | **671** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **676** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **682** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **684** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **688** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **689** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **HD50** | • | • | • | | | • | • | • | • | | • | • | • | • | | | | | | • | • |
| | **HD80** | • | • | • | | | • | | | | | • | • | • | • | | | | | | • | • |
| | **QT Fans** | • | • | • | | • | • | | | | • | • | • | • | • | | | | | | • | • |
| | **QTXE110S** | | | | | | | | | | | • | • | | | | | | | | | |
| | **QTRE100S** | | | | | | | | | | | • | • | | | | | | | | | |
| **Fan/Lights** | **657** | • | • | • | | • | • | | | | • | | | • | • | | | | | | • | • |
| | **678** | • | • | • | | • | • | | | | • | | | • | • | | | | | | • | • |
| | **679** | • | • | • | | • | • | | | | • | | | • | • | | | | | | • | • |
| | **679FLT** | • | • | • | | • | • | | | | • | | | • | • | | | | | | • | • |
| | **680** | • | • | • | | • | • | | | | • | | | • | • | | | | | | • | • |
| | **680FLT** | • | • | • | | • | • | | | | • | | | • | • | | | | | | • | • |
| | **696** | • | • | • | | • | • | | | | • | | | • | • | | | | | | • | • |
| | **741SN 741WH** | • | • | • | | • | • | | | | • | | | • | • | | | | | | • | • |
| | **744** | | | | | • | | | | | • | | | | | | | | | | • | |
| | **744FL** | | | | | • | | | | | • | | | | | | | | | | • | |

¹Built-in on/off switch. ²Built-in on/off variable switch.

| Category | Product | 57W 57V | 59W 59V | 61W 61V | 62W 62V | 63W 63V | 64W 64V | 65W 65V | 66W 66V | 67W 67V | 68W 68V | 69W | 69WL 69VL | 71V | 72W 72V | 75V | 77DW 77DV | 80L | 269WL 269VL | 685WL 685VL | DH 100W | T24H |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Fan/Lights | 750 | ● | ● | ● | ● |  | ● | ● | ● | ● | ● |  |  | ● | ● |  |  |  | ● | ● | ● | ● |
| | 751 | ● | ● | ● |  | ● | ● |  |  |  | ● |  |  | ● | ● |  |  |  | ● |  | ● | ● |
| | 754RB, 754SN | ● | ● | ● |  | ● | ● |  |  |  | ● |  |  | ● | ● |  |  |  | ● |  | ● | ● |
| | 757SN | ● | ● | ● |  | ● | ● |  |  |  | ● |  |  | ● | ● |  |  |  | ● |  | ● | ● |
| | 758 | ● | ● | ● |  | ● | ● |  |  |  | ● |  |  | ● | ● |  |  |  | ● |  | ● | ● |
| | HD50L | ● | ● | ● |  | ● | ● |  |  |  | ● |  |  | ● | ● |  |  |  | ● |  | ● | ● |
| | HD80L | ● | ● | ● |  | ● | ● |  |  |  | ● |  |  | ● | ● |  |  |  | ● |  | ● | ● |
| | QT Fan/Lights | ● | ● | ● |  | ● | ● |  | ● |  |  |  |  | ● | ● |  |  |  |  |  | ● | ● |
| | QT Sensing Fan/Lights |  |  |  |  |  |  | ● | ● | ● |  |  |  |  |  |  | ● |  |  |  |  |  |
| Heater/Fan/Lights | 100HL | ● | ● | ● | ● |  |  | ● | ● | ● |  |  |  | ● | ● |  |  |  |  |  | ● | ● |
| | 100HFL | ● | ● | ● | ● |  |  | ● | ● | ● |  |  |  | ● | ● |  |  |  |  |  | ● | ● |
| | 161 |  | ● | ● |  |  | ● |  |  |  |  |  | ● |  | ● |  |  |  |  |  | ● | ● |
| | 162 | ● | ● | ● |  | ● | ● |  |  |  | ● |  |  | ● | ● |  |  |  | ● |  | ● | ● |
| | 163 |  | ● | ● |  | ● |  |  |  |  |  | ● | ● |  | ● |  |  |  |  |  | ● | ● |
| | 164 | ● | ● | ● | ● | ● | ● |  | ● | ● | ● | ● |  |  | ● | ● |  |  |  | ● | ● | ● | ● |
| | 655 | ● | ● | ● | ● |  |  | ● | ● | ● |  |  |  | ● | ● |  |  |  | ● | ● | ● | ● |
| | 656 |  | ● | ● |  | ● |  |  |  |  |  |  |  | ● |  |  |  |  |  |  | ● | ● |
| | 658 | ● | ● | ● |  | ● |  |  |  |  | ● |  |  | ● | ● |  |  |  | ● |  | ● | ● |
| | 659 | ● | ● | ● | ● |  |  | ● | ● | ● |  |  |  | ● | ● |  |  |  | ● | ● | ● | ● |
| | QTX110HL | ● | ● | ● | ● |  |  | ● | ● | ● |  |  |  | ● | ● |  | ● |  |  |  | ● | ● |
| | QTX110HFL | ● | ● | ● | ● |  |  | ● | ● | ● |  |  |  | ● | ● |  | ● |  |  |  | ● | ● |
| High Capacity | L100–L700 Series | ● | ● | ● |  |  | ● |  |  |  |  | ● | ● | ● | ● |  |  | ● |  |  | ● | ● |
| | L900 Series |  | ● | ● |  |  | ● |  |  |  |  | ● | ● | ● | ● |  |  | ● |  |  | ● | ● |
| | L1500 Series |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● |  |
| | L2000L |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| In-Line | MP100, MP140 MP200 | ● | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| | MP280 |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| | SP100, SP140 SP200 | ● | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| Attic Ventilation | 349BR |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| | 350BK |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| | 350BR |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| | 353 |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| | 35316 |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| | 355BK |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| | 355BR |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |
| | 356BK |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● |  |  |  |  |  |  | ● |  |
| | 356BR |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● |  |  |  |  |  |  | ● |  |
| | 358 |  | ● | ● |  |  |  |  |  |  |  | ● | ● | ● | ● |  |  |  |  |  | ● | ● |

# **Broan Ventilation Fans**—Ducting Accessories

## Roof Caps

### Model 611 Roof Cap
- For flat roof installation
- Aluminum natural finish
- For up to 8" round duct
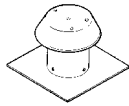
### Model 611CM Roof Cap
- For curb mount installation
- Other features same as Model 611

### Model 612 Roof Cap
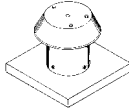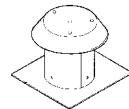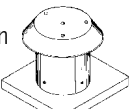- For flat roof installation
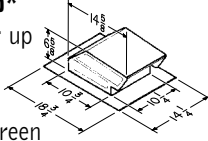- Aluminum natural finish
- For up to 12" round duct

### Model 612CM Roof Cap
- For curb mount installation
- Other features same as Model 612

### Model 634 Roof Cap*
- For 3-1/4" x 10" or up to 8" round duct
- Built-in backdraft damper and bird screen
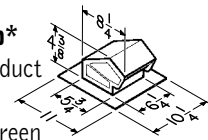- Steel baked black enamel finish

### Model 634M Roof Cap*
- Same as Model 634 except for 6" round duct

### Model 636 Roof Cap*
- For 3" or 4" round duct
- Built-in backdraft damper and bird screen
- Steel baked black enamel finish

### Model 636AL Roof Cap
- Same as Model 636, except aluminum natural finish

### Model 644 Roof Cap
- Same as Model 634, except for aluminum natural finish
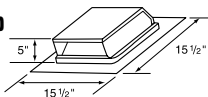
## Ducting

### Model 401 Duct
- 3-1/4" x 10" duct
- 2' galvanized section

### Model 406 Round Duct
- 6" round duct
- 2' galvanized section

## Ducting Continued

### Model 407 Round Duct
- 7" round duct
- 2' galvanized section

### Model 410 Round Duct
- 10" round duct
- 2' galvanized section

### Models DT4C, DT6C Non-Insulated Flexible Duct
- 4" (DT4C) or 6" (DT6C) round
- DT4C is a 4-pack
- 25' standard length
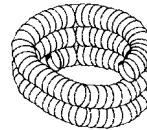
### Models DT4W, DT6W Insulated Flexible Duct
- 4" (DT4W) or 6" (DT6W) round
- 25' standard length

## Transitions

### Model 411 Transition
- Converts 3-1/4" x 10" duct to 6" round duct

### Model 412 Transition
- Converts 3-1/4" x 10" duct to 7" round duct

### Model 413 Transition
- Converts 3-1/4" x 10" duct to 8" round duct

### Model 414 Transition
- Converts 8" round duct to 10" round duct

### Model 472 Transition
- Converts 10" round duct to 8" round duct
- Includes damper

### Model 475 Transition
- Converts 6" round duct to 4" round duct
- Available in 6 Pack (475B)

## Wall Caps

### Model 613 Wall Cap*
- For 12" round duct
- Built-in backdraft damper and bird screen
- Aluminum natural finish

## Wall Caps Continued

### Model 639 Wall Cap*
- For 3-1/4" x 10" duct
- Spring-loaded backdraft damper
- Built-in bird screen
- Steel baked black enamel finish
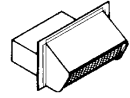
### Model 641 Wall Cap*
- For 6" round duct
- Built-in backdraft damper and bird screen
- Aluminum natural finish
- Model 647 for 7" Round duct
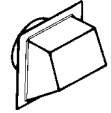
### Model 647 Wall Cap
- For 7" round duct
- Other features same as Model 641

### Model 649 Wall Cap
- Same as Model 639, except aluminum natural finish
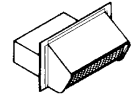
### Model 843BL*
- For 6" round duct
- Built-in backdraft damper and bird screen
- Black finish

### Model 885BL Wall Cap*
- For 3" or 4" round duct
- 4" to 3" transition included
- Steel baked black enamel finish
- Standard package – 6 to a carton
- Built-in bird screen – and damper
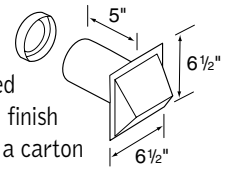
### Model 885AL Wall Cap*
- For 3" or 4" round duct
- 4" to 3" transition included
- Aluminum natural finish
- Standard package – 4 to a carton
- Built in bird screen and damper

### Model 643 Wall Cap
- For 8" round duct
- Aluminum natural finish
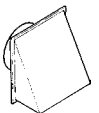
### Model 645 Louvered
- Wall Cap for 3" Round Duct
- White polymeric
- 6 to a carton
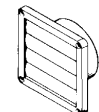
### Model 646 Louvered Wall Cap for 6" Round Duct
- Single pack
- White polymeric

### Model WC650 Wall Cap
- For 4" round duct
- White polymeric
- 4 to a carton

*Not for use with dryers.

## Ducting Kits

**Model RVK1A**
**Flexible Roof Ducting Kit**
• Includes Model 636 Roof Cap
• 4" diameter metal duct connector
• 2 duct clamps
• 4" to 3" reducer
• 8' of 4" flexible aluminum ducting

**Model WVK2A***
**Flexible Wall Ducting Kit**
• Includes white polymeric wall cap
• 4" diameter metal duct connector
• 2 duct clamps
• 4" to 3" reducer
• 5' of 4" flexible aluminum ducting
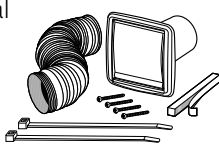
## Filters

**Model 99010042 Aluminum Filter**
• Fits Utility Ventilator Models 503, 503MG, 505, 505MG, 509, 509MG, 509S and 509SMG

**Model 99010271 Aluminum Filter**
• Fits Utility Ventilator Models 12C, 12CMG, 502, 502MG, 504, 504MG, 508, 508MG, 510, 510MG, 511 and 511MG

## Metal Grille Kit

**Model 97011308**
• Steel baked white enamel finish
• Fits fan Models 670, 671, 676, 684, 688 and 689
• Grille size is 10-1/4" square

## Elbows

**Model 415**
**Adjustable Elbow**
• Fits 7" round duct

**Model 418**
**Adjustable Elbow**
• Fits 10" round duct

**Model 419**
**Adjustable Elbow**
• Fits 6" round duct

**Model 428**
**Vertical Elbow**
• Fits 3-1/4" x 10" duct

**Model 429**
**Horizontal Elbow**
• Fits 3-1/4" x 10" duct
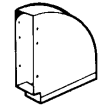
**Model 430 Short Eave Elbow**
• For 3-1/4" x 10" duct
• Includes backdraft damper and grille
• Only recommended for fans with more than 160 CFM

**Model 431 Long Eave Elbow**
• For 3-1/4" x 10" duct
• Includes backdraft damper and grille
• Only recommended for fans with more than 160 CFM

*Not for use with dryers.

# Broan Ventilation Fans—Specifications

## Fans

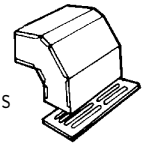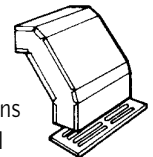| | Page | CFM | Sones HVI-certified ( | Baths up to ) Sq Ft | Energy Star | Duct Size" | Housing Dimensions L" | W" | H" | Grille Dimensions L" | W" | Grille finish | Amps |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QTXE050 | 13 | 50 | <0.3 | 45 | Yes | 6 | 11⅜ | 10½ | 7⅞ | 14 | 15 | White Polymeric | 0.3 |
| QTXE080 | 13 | 80 | 0.3 | 75 | Yes | 6 | 11⅜ | 10½ | 7⅞ | 14 | 15 | White Polymeric | 0.4 |
| QTXE110 | 13 | 110 | 0.7 | 100 | Yes | 6 | 11⅜ | 10½ | 7⅞ | 14 | 15 | White Polymeric | 0.3 |
| QTXE110S | 12 | 110 | 0.7 | 100 | Yes | 6 | 11⅜ | 10½ | 7⅞ | 12⅞ | 13¾ | White Polymeric | 0.3 |
| QTXE150 | 13 | 150 | 1.4 | 140 | Yes | 6 | 11⅜ | 10½ | 7⅞ | 14 | 15 | White Polymeric | 0.5 |
| QTRE100S | 13 | 100 | 1.5 | 90 | Yes | 4 | 11⅜ | 10½ | 7⅞ | 12⅞ | 13¾ | White Polymeric | 0.3 |
| QTRE080 | 13 | 80 | 0.8 | 75 | Yes | 4 | 11⅜ | 10½ | 7⅞ | 13 | 14 | White Polymeric | 0.4 |
| QTRE110 | 13 | 110 | 1.3 | 100 | Yes | 4 | 11⅜ | 10½ | 7⅞ | 13 | 14 | White Polymeric | 0.3 |
| QTR080 | 13 | 80 | 1.0 | 75 | | 4 | 11⅜ | 10½ | 7⅞ | 13 | 14 | White Polymeric | 0.7 |
| QTR110 | 13 | 110 | 1.5 | 100 | | 4 | 11⅜ | 10½ | 7⅞ | 13 | 14 | White Polymeric | 0.9 |
| 670 | 15 | 50 | 3.5 | 45 | | 3 | 7¼ | 7½ | 3⅜ | 9 | 9¼ | White Polymeric | 0.8 |
| 671 | 15 | 70 | 6.0 | 65 | | 3 | 7¼ | 7½ | 3⅜ | 9 | 9¼ | White Polymeric | 1.2 |
| 676 | 15 | 110 | 4.0 | 100 | | 4 | 8 | 8¼ | 5¾ | 10⅝ | 11⅛ | White Polymeric | 1.3 |
| 682 | 15 | | — | | | Duct-free | 7⅞ | 7⅞ | 3¾ | 8½ | 8½ | White Polymeric | 1.0 |
| 684 | 15 | 80 | 2.5 | 75 | | 4 | 8 | 8¼ | 5¾ | 10⅝ | 11⅛ | White Polymeric | 0.5 |
| 688 | 15 | 50 | 4.0 | 45 | | 3 | 7¼ | 7½ | 3⅜ | 9 | 9¼ | White Polymeric | 0.9 |
| 689 | 15 | 60 | 5.5 | 55 | | 3 | 7¼ | 7½ | 3⅜ | 9 | 9¼ | White Polymeric | 1.5 |
| 690* | 14 | 60 | 3.0 | 55 | | — | — | — | — | 9⅝ | 11⅛ | White Polymeric | 1.5 |
| HD50 | 15 | 50 | 1.5 | 45 | Yes | 4 | 8 | 8¼ | 5¾ | 10¼ | 10¼ | White Painted Metal | 0.4 |
| HD50RDF** | 14 | 50 | 1.5 | 45 | Yes | 4 | 8 | 8¼ | 5¾ | 10¼ | 10¼ | White Acrylic Metal | 0.4 |
| HD80 | 15 | 80 | 2.5 | 75 | | 4 | 8 | 8¼ | 5¾ | 10¼ | 10¼ | White Painted Metal | 0.6 |
| 80RDF** | 14 | 80 | 2.5 | 75 | | 4 | 8 | 8¼ | 5¾ | 10¼ | 10¼ | White Acrylic Metal | 0.6 |
| HD80RDF** | 14 | 80 | 2.5 | 75 | | 4 | 8 | 8¼ | 5¾ | 10¼ | 10¼ | White Acrylic Metal | 0.6 |
| 110RDF** | 14 | 110 | 4.0 | 105 | | 4 | 8 | 8¼ | v | 10¼ | 10¼ | White Acrylic Metal | 0.6 |

Radiation Dampers can be found on page 14. *Replacement grille and motor kit. **Model RDA fan housing only sold separately for radiation dampers/fans.

## Utility Fans

| | Page | CFM | Sones | Housing Dimensions L" | W" | H" | Grille Dimensions L" | W" | Amps | Duct |
|---|---|---|---|---|---|---|---|---|---|---|
| 12C | 17 | 360 | 8.0 | 11½ Sq | | | 13½ Sq | | 1.7 | Direct Discharge |
| 502 | 16 | 270 | 8.0 | 16¾ | 13⅞ | 3¼ | 13½ Sq | | 1.7 | 3¼" x 10" |
| 503 | 16 | 160 | 5.0 | 14 | 12 | 3¼ | 11½ Sq | | 1.5 | 3¼" x 10" |
| 504 | 17 | 350 | 6.5 | 10¼ Rd | 7 | | 13½ Sq | | 1.7 | 10" |
| 505 | 17 | 180 | 6.5 | 8¼ Rd | 7 | | 11½ Sq | | 1.5 | 8" |
| 506 | 16 | 470 | 8.0 | 10⅜ Rd | | | 13½ Sq | | 1.7 | Direct Discharge |
| 507 | 16 | 250 | 7.0 | 8⅜ Rd | | | 11½ Sq | | 1.5 | Direct Discharge |
| 508 | 17 | 270 | 6.0 | 10⅜ Rd | | | 13½ Sq | | 1.7 | Direct Discharge |
| 509 | 17 | 180 | 6.5 | 8⅜ Rd | | | 13½ Sq | | 1.5 | Direct Discharge |
| 509S | 17 | 180 | 6.5 | 8⅜ Rd | | | 13½ Sq | | 1.5 | Direct Discharge |
| 510 | 16 | 380 | 6.5 | 11½ Sq | | | 13½ Sq | | 1.7 | Room to room wall fan |
| 511 | 16 | 180 | 4.5 | 11½ Sq | | | 13½ Sq | | 0.9 | Room to room wall fan |
| 512 | 17 | 90 | 3.5 | 6 Rd | | | 8 Dia | | 0.7 | Room to room wall fan |
| 512M | 17 | 70 | 3.5 | 6 Rd | | | 8 Dia | | 0.7 | Direct Discharge |
| 673 | 17 | 60 | 4.5 | 6¼ Rd | 5¼ | | 8 Dia | | 1.0 | 6" |

## In-Line Ventilators

| | Page | CFM | 0.2" Ps Sones | Housing Dimensions L" | W" | H" | Amps | Duct |
|---|---|---|---|---|---|---|---|---|
| MP100 | 18 | 110 | 1.0 | 11 | 10½ | 9½ | 0.5 | 4 - 4" Rd Inlets, 6" Rd Outlet |
| MP140 | 18 | 150 | 1.5 | 11 | 10½ | 9½ | 0.8 | 4 - 4" Rd Inlets, 6" Rd Outlet |
| MP200 | 18 | 210 | 2.0 | 11 | 10½ | 9½ | 1.3 | 4 - 4" Rd Inlets, 6" Rd Outlet |
| MP280 | 18 | 290 | 3.0 | 15¼ | 14¼ | 14¾ | 2.5 | 4 - 4" Rd Inlets, 6" Rd Outlet |
| SP100 | 19 | 110 | 1.0 | 11 | 10½ | 9½ | 0.5 | 6" Rd Inlet and Outlet |
| SP140 | 19 | 150 | 1.5 | 11 | 10½ | 9½ | 0.8 | 6" Rd Inlet and Outlet |
| SP200 | 19 | 210 | 2.0 | 11 | 10½ | 9½ | 1.3 | 6" Rd Inlet and Outlet |

## High Capacity Fans

| | Page | CFM/Sones CFM | .125" Ps (AMCA) Sones | Housing Dimensions L" | W" | H" | Grille Dimensions L" | W" | Amps at 60 Hz | Duct" | Watts | Volts |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| L100 | 21 | 109 | 0.9 | 12¼ | 12¼ | 11¾ | 14 | 14 | 1.1 | 6 | 87 | 120 |
| L100L | 21 | 106 | 0.7 | 12¼ | 12¼ | 11¾ | — | — | 1.1 | 6 | 87 | 120 |
| L100MG | 21 | 115 | 0.9 | 12¼ | 12¼ | 11¾ | 14 | 14 | 1.1 | 6 | 87 | 120 |
| L150 | 21 | 157 | 1.5 | 12¼ | 12¼ | 11¾ | 14 | 14 | 1.3 | 6 | 100 | 120 |
| L150L | 21 | 147 | 1.1 | 12¼ | 12¼ | 11¾ | — | — | 1.3 | 6 | 100 | 120 |
| L150MG | 21 | 161 | 1.4 | 12¼ | 12¼ | 11¾ | 14 | 14 | 1.3 | 6 | 100 | 120 |
| L200 | 22 | 210 | 1.7 | 12¼ | 12¼ | 11¾ | 14 | 14 | 1.8 | 8 | 127 | 120 |
| L200L | 22 | 195 | 1.9 | 12¼ | 12¼ | 11¾ | — | — | 1.8 | 8 | 127 | 120 |
| L200MG | 22 | 215 | 1.9 | 12¼ | 12¼ | 11¾ | 14 | 14 | 1.8 | 8 | 127 | 120 |
| L250 | 22 | 259 | 2.2 | 12¼ | 12¼ | 11¾ | 14 | 14 | 2.1 | 8 | 166 | 120 |
| L250L | 22 | 245 | 2.3 | 12¼ | 12¼ | 11¾ | — | — | 2.1 | 8 | 166 | 120 |
| L250MG | 22 | 265 | 2.5 | 12¼ | 12¼ | 11¾ | 14 | 14 | 2.1 | 8 | 166 | 120 |
| L300 | 22 | 308 | 2.9 | 12¼ | 12¼ | 11¾ | 14 | 14 | 2.6 | 8 | 212 | 120 |
| L300KMG | 22 | 277 | 3.1 | 12¼ | 12¼ | 11¾ | 14 | 14 | 2.6 | 8 | 212 | 120 |
| L300L | 22 | 293 | 3.1 | 12¼ | 12¼ | 11¾ | — | — | 2.6 | 8 | 212 | 120 |
| L300MG | 22 | 316 | 3.0 | 12¼ | 12¼ | 11¾ | 14 | 14 | 2.6 | 8 | 212 | 120 |
| L400 | 23 | 434 | 2.3 | 21½ | 12¼ | 11¾ | 23¾ | 14 | 1.4 | 4½ x 18½ | 146 | 120 |
| L400K | 23 | 406 | 3.3 | 21½ | 12¼ | 11¾ | 23¾ | 14 | 1.4 | 4½ x 18½ | 146 | 120 |
| L400L | 23 | 406 | 1.6 | 21½ | 12¼ | 11¾ | — | — | 1.4 | 4½ x 18½ | 146 | 120 |
| L500 | 23 | 514 | 3.3 | 21½ | 12¼ | 11¾ | 23¾ | 14 | 2.2 | 4½ x 18½ | 232 | 120 |
| L500K | 23 | 481 | 4.4 | 21½ | 12¼ | 11¾ | 23¾ | 14 | 2.2 | 4½ x 18½ | 232 | 120 |
| L500L | 23 | 519 | 3.4 | 21½ | 12¼ | 11¾ | — | — | 2.2 | 4½ x 18½ | 232 | 120 |
| L700 | 23 | 701 | 4.7 | 21½ | 12¼ | 11¾ | 23¾ | 14 | 2.9 | 4½ x 18½ | 313 | 120 |
| L700L | 23 | 681 | 3.7 | 21½ | 12v | 11¾ | — | — | 2.9 | 4½ x 18½ | 313 | 120 |
| L900 | 23 | 901 | 4.1 | 22 | 18 | 18 | 23⅞ | 19⅞ | 3.0 | 8 x 12 | 306 | 120 |
| L900L | 24 | 894 | 3.8 | 22 | 18 | 18 | — | — | 3.0 | 8 x 12 | 306 | 120 |
| L1500 | 24 | 1513 | 8.4 | 22 | 18 | 18 | 23⅞ | 19⅞ | 5.0 | 8 x 12 | 468 | 120 |
| L1500L | 24 | 1214 | 6.7 | 22 | 18 | 18 | — | — | 5.0 | 8 x 12 | 468 | 120 |
| L2000L | 24 | 1791 | 9.4 | 38 | 14⅝ | 14⅝ | — | — | 5.8 | 7¾ x 33¾ | 590 | 120 |

## Fan/Lights

| | Page | CFM | Sones, HVI-certified | Baths up to ( ) Sq Ft | Lighting Watts Main/ Nightlight | Energy Star | Fluorescent Lighting | Title 24 Compliant | Duct Size" | Housing Dims L" | W" | H" | Grille Dims L" | W" | Grille finish | Amps |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QTXE080FLT | 27 | 80 | 0.3 | 75 | 42/4 | Yes | Yes | Yes | 6 | 11⅜ | 10½ | 7⅝ | 13⅜ | 14¼ | White Polymeric | 1.0 |
| QTXE110FLT | 27 | 110 | 0.7 | 100 | 42/4 | Yes | Yes | Yes | 6 | 11⅜ | 10½ | 7⅝ | 13⅜ | 14¼ | White Polymeric | 1.0 |
| QTXE150FLT | 27 | 150 | 1.4 | 140 | 42/4 | Yes | Yes | Yes | 6 | 11⅜ | 10½ | 7⅝ | 13⅜ | 14¼ | White Polymeric | 1.2 |
| QTRE080FLT | 27 | 80 | 0.8 | 75 | 42/4 | Yes | Yes | Yes | 4 | 11⅜ | 10½ | 7⅝ | 12⅜ | 14 | White Polymeric | 1.0 |
| QTRE110FLT | 27 | 110 | 1.3 | 100 | 42/4 | Yes | Yes | Yes | 4 | 11⅜ | 10½ | 7⅝ | 12⅜ | 14 | White Polymeric | 1.0 |
| QTR080L | 27 | 80 | 1.0 | 75 | 100/4 | | | | 4 | 11⅜ | 10½ | 7⅝ | 12⅜ | 14 | White Polymeric | 1.6 |
| QTR110L | 27 | 110 | 1.5 | 100 | 100/4 | | | | 4 | 11⅜ | 10½ | 7⅝ | 12⅜ | 14 | White Polymeric | 1.8 |
| QTX110SL | 26 | 110 | 0.9 | 100 | 100/4 | | | | 6 | 11⅜ | 10½ | 7⅝ | 13 | 13¾ | White Polymeric | 0.3 |
| QTXE110SFLT | 26 | 110 | 0.7 | 100 | 42/4 | Yes | Yes | Yes | 6 | 11⅜ | 10½ | 7⅝ | 12⅞ | 13¾ | White Polymeric | 0.3 |
| 657 | 31 | 70 | 4.0 | 65 | 100 | | | | 4 | 14¼ | 8¼ | 5¾ | 16¾ | 10⅝ | White Polymeric | 2.0 |
| 678 | 31 | 50 | 2.5 | 45 | 100 | | | | 4 | 8¼ | 8 | 5¾ | 11¼ | 10⅝ | White Polymeric | 1.6 |
| 679 | 31 | 70 | 3.5 | 65 | 100 | | | | 4 | 8¼ | 8 | 5¾ | 11¼ | 10⅝ | White Polymeric | 2.0 |
| 679FLT | 31 | 70 | 3.5 | 65 | 13 | | Yes | Yes | 4 | 8¼ | 8 | 5¾ | 11¼ | 10⅝ | White Polymeric | 1.3 |
| 680 | 31 | 100 | 4.0 | 90 | 100 | | | | 4 | 8¼ | 8 | 5¾ | 11¼ | 10⅝ | White Polymeric | 2.2 |
| 680FLT | 31 | 100 | 4.0 | 90 | 22 | | Yes | Yes | 4 | 8¼ | 8 | 5¾ | 11¼ | 10⅝ | White Polymeric | 1.7 |
| 696 | 31 | 100 | 4.5 | 90 | 100 | | | | 4 | 14¼ | 8¼ | 5¾ | 16¾ | 10⅝ | White Polymeric | 2.0 |
| 741SN | 29 | 70 | 3.5 | 65 | 120 (2-60W) | | | | 4 | 8¼ | 8 | 5¾ | 13⅛ Dia | | Satin Nickel | 2.2 |
| 741WH | 29 | 70 | 3.5 | 65 | 120 (2-60W) | | | | 4 | 8¼ | 8 | 5¾ | 13⅛ Dia | | White | 2.2 |
| 744 | 30 | 70 | 1.5 | 65 | 75 | | | | 4 | 8¼ | 12¾ | 6¾ | 7⅞ Dia | | Matte White | 1.2 |
| 744FL | 30 | 70 | 1.5 | 65 | 14 | Yes | Yes | Yes | 4 | 8¼ | 12¾ | 6¾ | 7⅞ Dia | | Matte White | 0.7 |
| 750 | 31 | 100 | 3.5 | 90 | 100/7 | | | | 4 | 9 | 9 | 6 | 15 Dia | | White Polymeric | 1.9 |
| 751 | 31 | 100 | 3.5 | 90 | 100 | | | | 4 | 9 | 9 | 6 | 15 Dia | | White Polymeric | 1.9 |
| 754RB | 28 | 70 | 3.5 | 65 | 120 (2-60W) | | | | 4 | 8¼ | 8 | 5¾ | 13⅛ Dia | | Oil-rubbed Bronze | 2.2 |
| 754SN | 28 | 70 | 3.5 | 65 | 120 (2-60W) | | | | 4 | 8¼ | 8 | 5¾ | 13⅛ Dia | | Nickel | 2.2 |
| 757SN | 29 | 80 | 2.5 | 75 | 120 (2-60W) | | | | 4 | 8¼ | 8 | 5¾ | 13⅛ Dia | | Satin Nickel | 1.6 |
| HD50L | 31 | 50 | 1.5 | 45 | 100 | | | | 4 | 8 | 8¼ | 5¾ | 10¼ | 10¼ | White Polymeric | 0.4 |
| HD80L | 31 | 80 | 2.5 | 75 | 100 | | | | 4 | 8 | 8¼ | 5¾ | 10¼ | 10¼ | White Polymeric | 0.6 |

## Broan Ventilation Fans—Specifications

### Heater/Fan/Lights

| | Page | CFM | Sones, HVI Certified | Lighting Main/ Nightlight | Housing Dimensions L" | W" | H" | Grille Dimensions L" | W" | Grille Finish | Duct Size" | Amps | Total Connected Load In Watts | Heater Wattage | BTU |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| QTX110HL | 33 | 110 | 0.9 | 120W/7W | 17⅜ | 11⅜ | 7⅞ | 20 | 15 | White Polymeric | 6 | 14.6 | 1710 | 1500 | 5120 |
| QTX110HFLT | 33 | 110 | 0.9 | 36W Fluor. (GU24 Incl.)/7W | 17⅜ | 11⅜ | 7⅞ | 20 | 15 | White Polymeric | 6 | 13.9 | 1626 | 1500 | 5120 |
| 100HL | 34 | 100 | 2.0 | 100W | 16 | 10¼ | 5⅞ | 17½ | 11½ | White Polymeric | 4 | 14.5 | 1830 | 1500 | 5120 |
| 100HFL | 34 | 100 | 2.0 | 27W Fluor. (Incl.) | 16 | 10¼ | 5⅞ | 17½ | 11½ | White Polymeric | 4 | 14.0 | 1760 | 1500 | 5120 |
| 162 | 35 | 70 | 3.5 | *250W (1) | 8⅜ | 8⅜ | 6⅜ | 10¼ | 10¼ | White Polymeric | 4 | 2.5 | 300 | 250* | 853 |
| 164 | 35 | 70 | 3.5 | *250W (2) | 14¼ | 8⅜ | 6⅜ | 15⅜ | 10¼ | White Polymeric | 4 | 4.5 | 545 | 500* | 1707 |
| 655 | 35 | 70 | 4.0 | 100W | 14¼ | 8¼ | 5¾ | 16¾ | 10⅝ | White Polymeric | 4 | 12.8 | 1545 | 1300 | 4437 |
| 656 | 35 | — | — | 100W | 14¼ | 8¼ | 5¾ | 16¾ | 10⅝ | White Polymeric | — | 11.9 | 1448 | 1300 | 4437 |
| 658 | 35 | 70 | 4.0 | n/a | 14¼ | 8¼ | 5¾ | 16¾ | 10⅝ | White Polymeric | 4 | 11.9 | 1448 | 1300 | 4437 |
| 659 | 35 | 50 | 2.5 | 100W | 14¼ | 8¼ | 5¾ | 16¾ | 10⅝ | White Polymeric | 4 | 12.0 | 1472 | 1300 | 4437 |

### Bulb Heaters*

| | Page | Heater Wattage | Volts | Amps | BTU/hr | Housing Dimensions W" | H" | D" | Grille Dimensions W" | H" | Grille Finish |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 161 | 35 | 250 | 120 | 2.1 | 853 | 8⅜ | 6⅜ | 8⅜ | 10¼ | 10¼ | White Polymeric |
| 163 | 35 | 500 | 120 | 4.3 | 1707 | 14¼ | 6⅜ | 8⅜ | 15⅜ | 10¼ | White Polymeric |

*See models 162 and 164 above for Ventilation Fan/Bulb Heater versions.

### Powered Attic Ventilators, Gable and Roof Mount

| | Page | Description | Housing Dimensions L" | W" | H" | CFM | Sones | Amps | Dome Color | Dome Material |
|---|---|---|---|---|---|---|---|---|---|---|
| 349BR | 36 | PAV–Roof Mount | 22¼ Sq | 24½ Dia Dome | 9 | 1000 | n/a | 4 | Dark Brown | Metal |
| 350BK | 36 | PAV–Roof Mount | 22¼ Sq | 23¼ Dia Dome | 8 | 1050 | n/a | 3.6 | Black | PVC |
| 350BR | 36 | PAV–Roof Mount | 22¼ Sq | 23¼ Dia Dome | 8 | 1050 | n/a | 3.6 | Brown | PVC |
| 353 | 36 | PAV–Gable Mount | 15 Dia | — | 8 | 1140 | n/a | 3.4 | — | — |
| 35316 | 36 | PAV–Gable Mount | 15 Dia | — | 8 | 1600 | n/a | 3.9 | — | — |
| 355BK | 36 | PAV–Roof Mount | 22¼ Sq | 23¼ Dia Dome | 8 | 1200 | n/a | 4.3 | Black | PVC |
| 355BR | 36 | PAV–Roof Mount | 22¼ Sq | 23¼ Dia Dome | 8 | 1200 | n/a | 4.3 | Brown | PVC |
| 356BK | 36 | PAV–Roof Mount | 22¼ Sq | 23¼ Dia Dome | 8 | 1600 | n/a | 8 | Black | PVC |
| 356BR | 36 | PAV–Roof Mount | 22¼ Sq | 23¼ Dia Dome | 8 | 1600 | n/a | 8 | Brown | PVC |
| 358 | 36 | PAV–Roof Mount | 22¼ Sq | 23¼ Dia Dome | 8 | 1200 | n/a | 4.3 | Silver | Metal |

# Broan. The leader in residential ventilation.

**Broan®** is America's leading brand of residential ventilation products including range hoods, ventilation fans, heater/fan/light combination units, Indoor Air Quality (IAQ) Systems, built-in heaters, whole-house fans, attic ventilators and trash compactors.

**NuTone®** is America's leading brand of residential built-in convenience products including door chimes, central vacuum systems, intercom systems, ceiling fans, home theater speakers, medicine cabinets, ironing centers and ventilation fans.

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